


設計驗證
工程課
2025 -06- 11
發行
益華科技開發股份有限公司



設計驗證
工程課
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益學科技開發股份有限公司

勇發塑膠股份有限公司

地址:桃園市龜山區萬壽路二段 342 巷 3 號
電話: (03)319-2299

零件承認書

SPECIFICATION FOR APPROVAL

公司名稱 COMPANY	鈺緯科技開發股份有限公司
品名 PART NAME	REAR COVER
料號 PART NO	**3MD539PA01A** (M3211)

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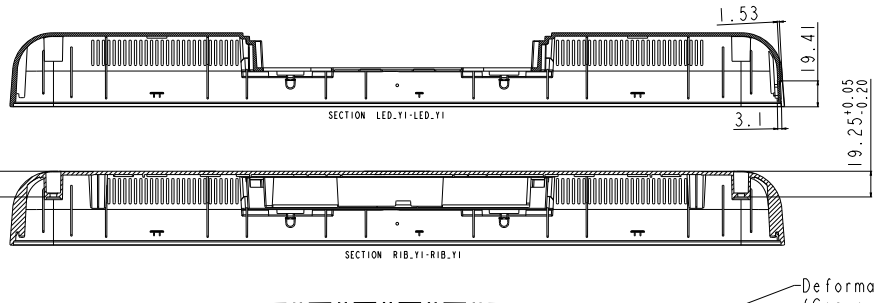
鈺緯科技開發股份有限公司

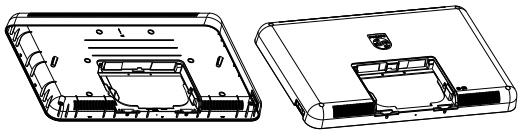
邱華財	高全財	李祖延
（工程部主管）	（業務部主管）	（承辦人員）

日期(DATE): 5 月(MONTH): 27日(DAY): 114 年(YEAR)

114. 6. 04

REV.	DATE	DESCRIPTION	BY	APVD
A	2020.06.17	Release For MP	Kate	Laslie
B	2025.05.14	Material Mark Update: >PC+ABS-(FR40)< , Recycle 7 other	Joseph	Laslie





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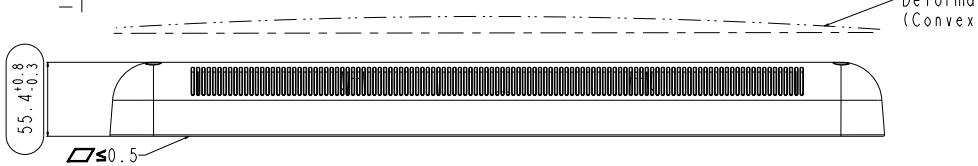
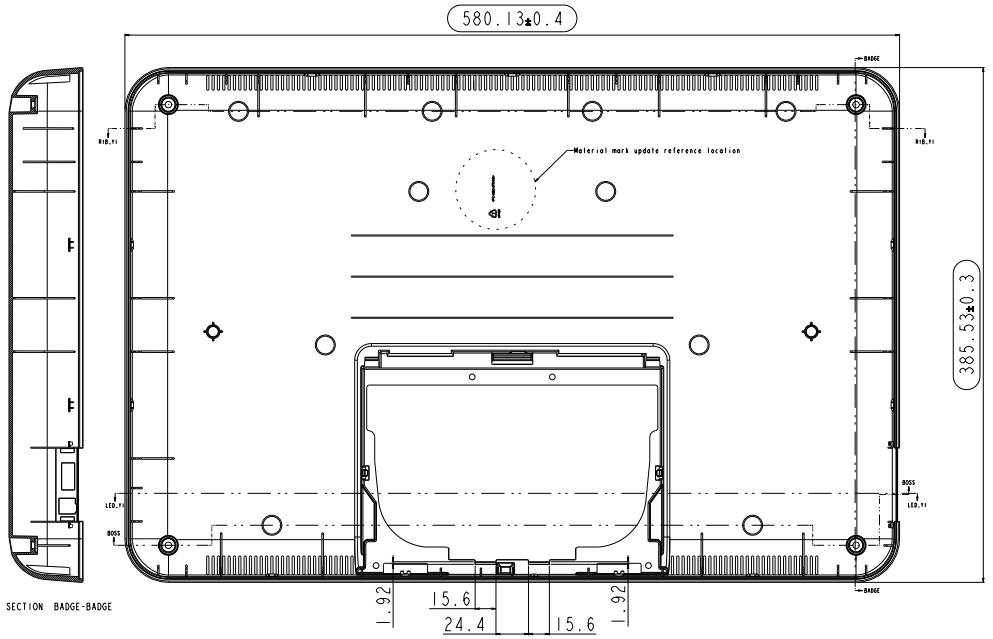
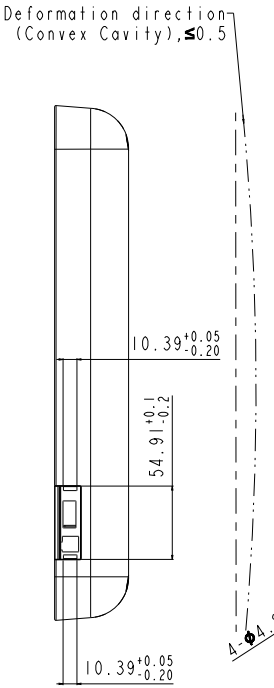
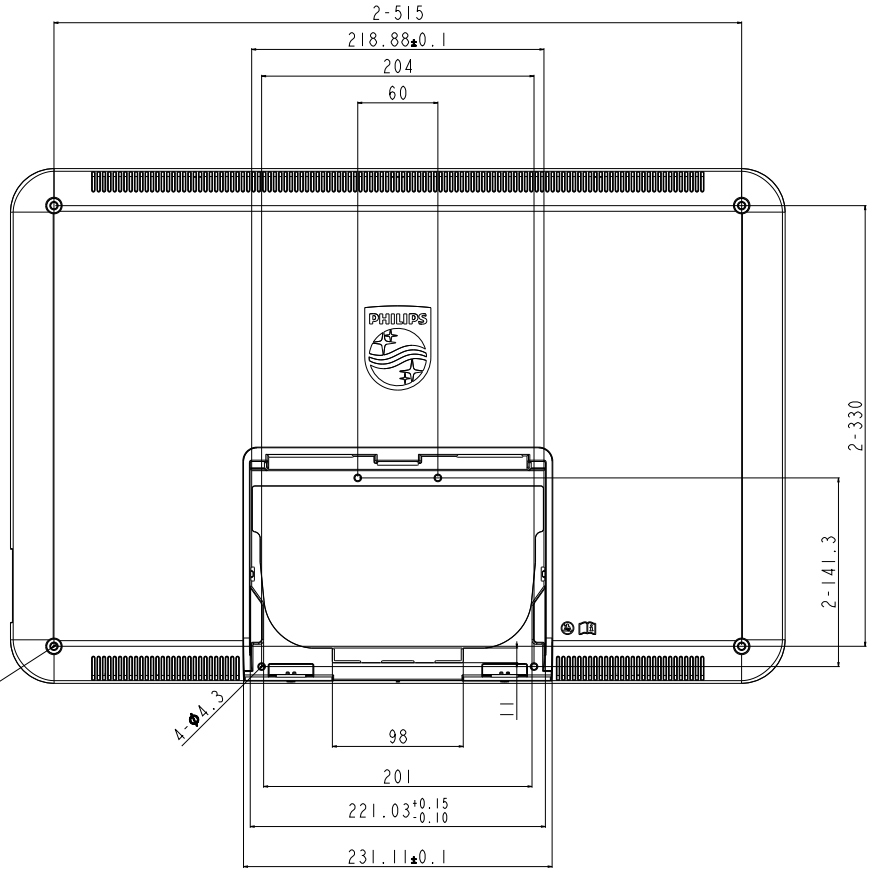
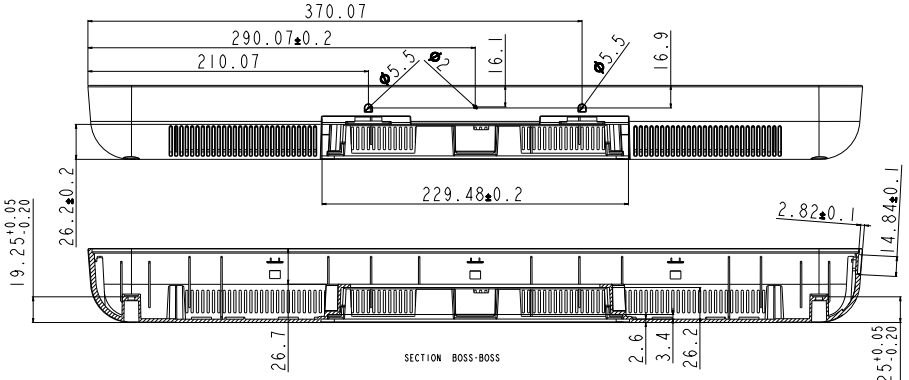
廷鋒科技開發股份有限公司











Notes:
1. Material: PC+ABS (FR3010 or C6600)
2. Texture : MT11010
3. Resign color:Philips white 90273
4. Generally Thickness:2.5 mm
5. Inspection dimension.
6. Unspecified Dimension refer to CAD Drawing file.
7. IQC INSPECTION DOCUMENT:QWI-020
8. RoHS Compliant
9. Packing bag: EPE PEARL BAG (690*450)
10. Warpage and flatness tolerance : ≤0.5 mm

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

DSGD by	Kate	2020.06.17
CHK by	Laslie	2020.06.17
APVD by	Laslie	2020.06.17
APVD NO.:	(M3211)	3D FILE NAME: 24_14601_REAR_COVER

UNITS: mm	SCALE : 1/1	SHEET: 1 OF 4	MODEL NO.: 24" Epiq Premium
MATERIAL: PC+ABS		TREATMENT:	See Notes
PART NAME: REAR COVER (24" EPIQ,WHITE 90273)			
PART NO.: 3MD539PA01A			REV. A

DIVA Laboratories ,Ltd.

REV.	DATE	DESCRIPTION	BY	APVD
A	2020.06.17	Release For MP	Kate	Laslie
B	2025.05.14	Material Mark Update: >PC+ABS-(FR40)< , Recycle 7 other	Joseph	Laslie

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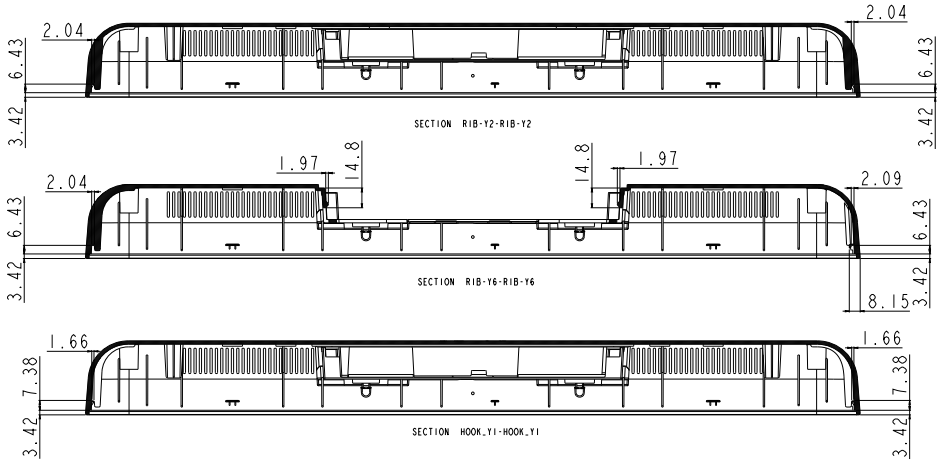

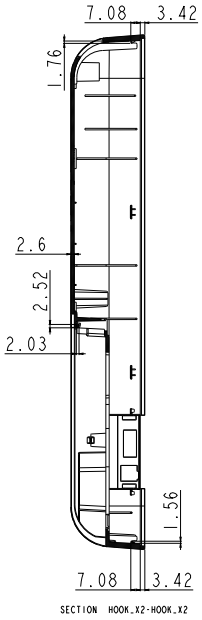

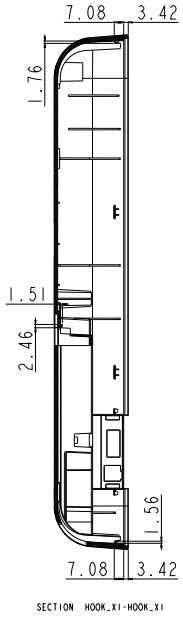

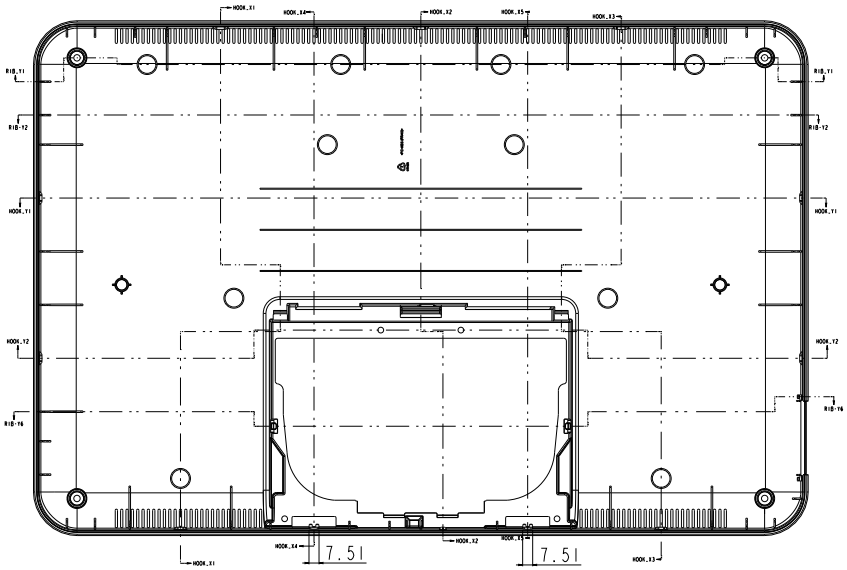

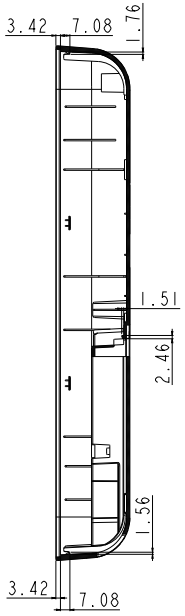

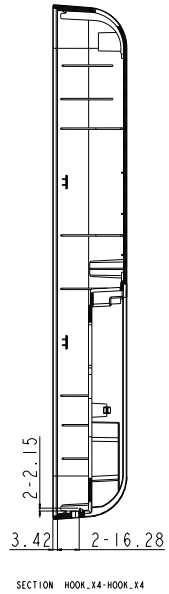

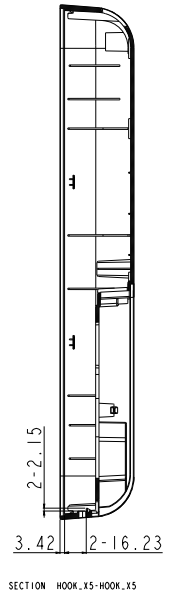

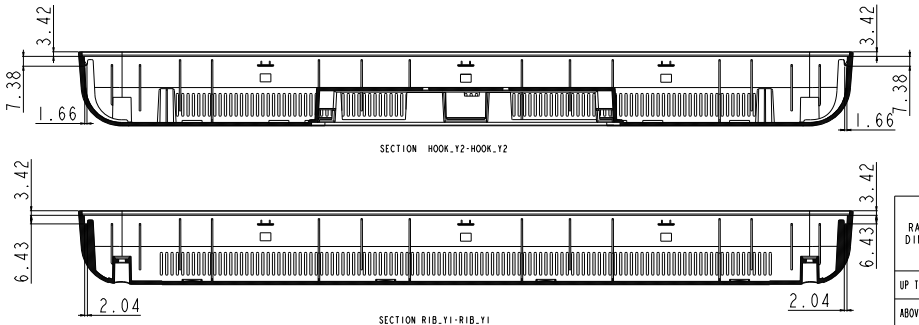

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION V f	m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

UNITS: mm	SCALE : 1/1	SHEET: 2 OF 4	MODEL NO.: 24" Epiq Premium
MATERIAL: PC+ABS		TREATMENT:	See Notes
DSGD by	Kate	2020.06.17	PART NAME: REAR COVER (24" EPIQ,WHITE 90273)
CHK by	Laslie	2020.06.17	
APVD by	Laslie	2020.06.17	PART NO.: 3MD539PA01A REV. A
APVD NO.:	(M3211)	3D FILE NAME:	24_14601_REAR_COVER

DIVA Laboratories ,Ltd.

REV.	DATE	DESCRIPTION	BY	APVD
A	2020.06.17	Release For MP	Kate	Laslie
B	2025.05.14	Material Mark Update: >PC+ABS-(FR40)< , Recycle 7 other	Joseph	Laslie

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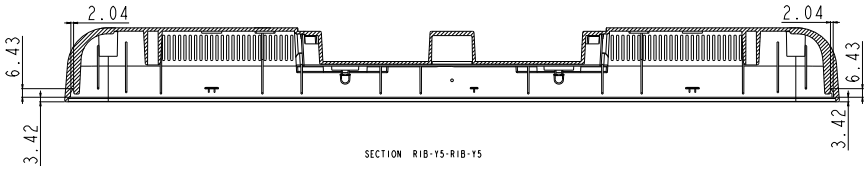
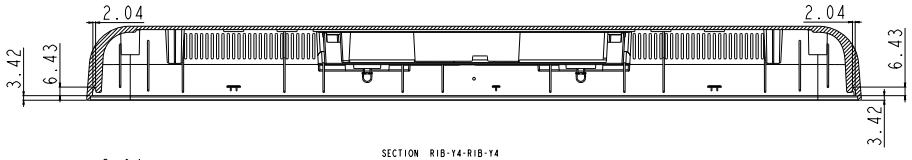


SECTION R1B-Y5-R1B-Y5



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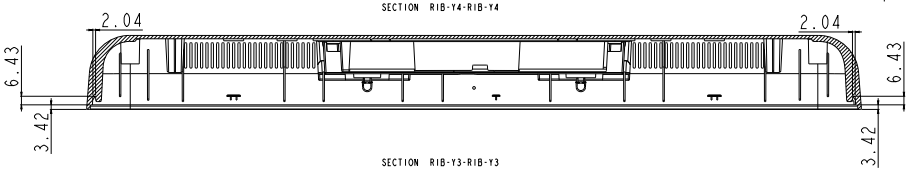

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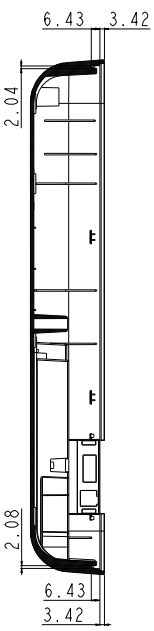

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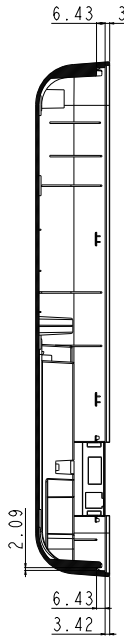

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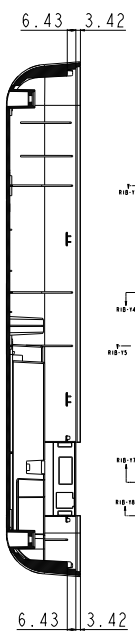

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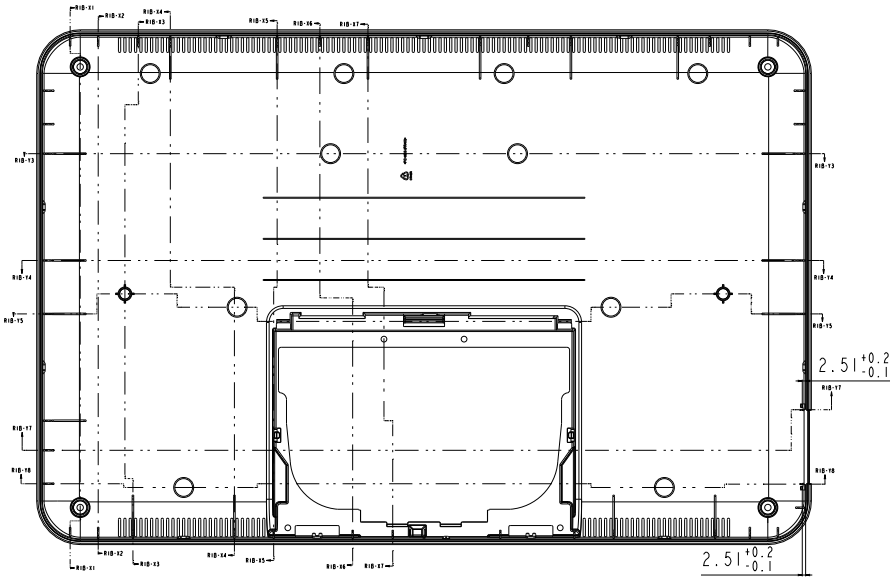

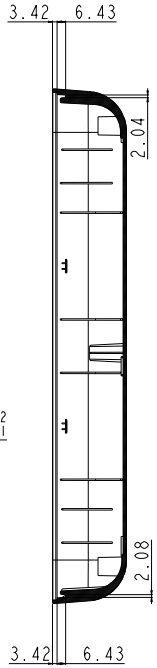

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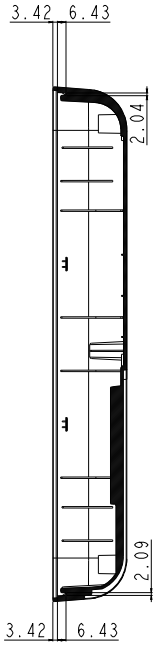

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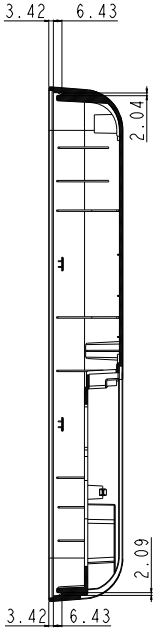
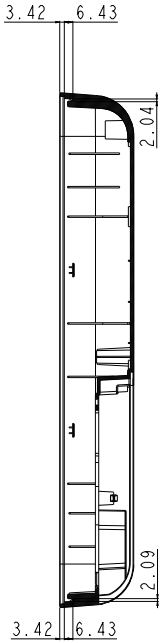


SECTION R1B-X6-R1B-X6



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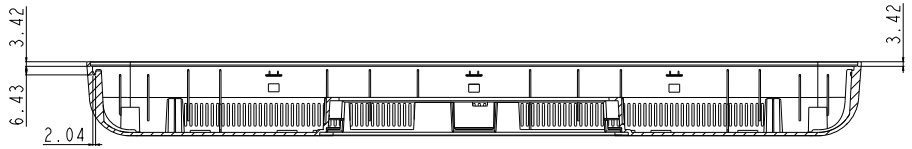
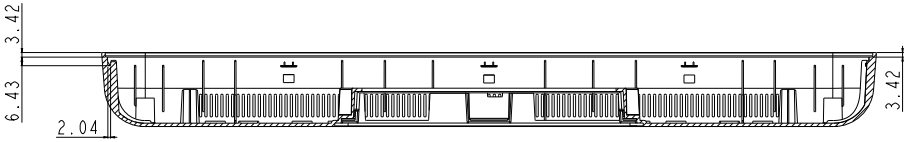


SECTION R1B-Y7-R1B-Y7



SECTION R1B-Y8-R1B-Y8

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION V f	m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

DSGD by	Kate	2020.06.17	
CHK by	Laslie	2020.06.17	
APVD by	Laslie	2020.06.17	
APVD NO.:	(M3211)	3D FILE NAME:	24_14601_REAR_COVER

UNITS: mm | SCALE : 1/1 | SHEET: 3 OF 4 | MODEL NO.: 24" Epiq Premium

MATERIAL: PC+ABS | TREATMENT: See Notes

PART NAME: REAR COVER (24" EPIQ,WHITE 90273)

PART NO.: 3MD539PA01A | REV. A

DIVA Laboratories ,Ltd.

REV.	DATE	DESCRIPTION	BY	APVD
A	2020.06.17	Release For MP	Kate	Laslie
B	2025.05.14	Material Mark Update: >PC+ABS-(FR40)< , Recycle 7 other	Joseph	Laslie

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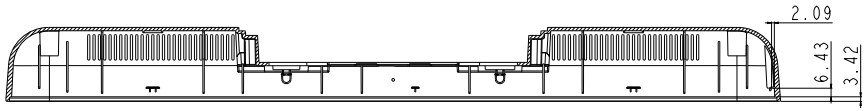

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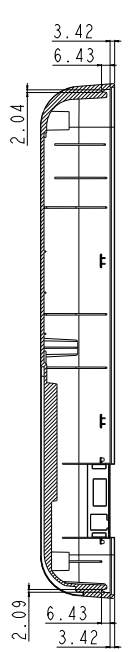

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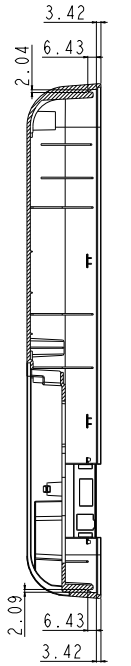
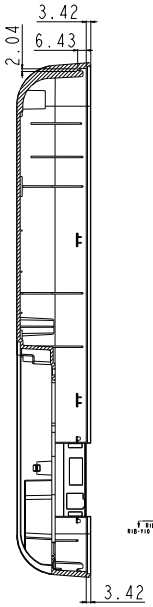


SECTION R1B-X9-R1B-X9



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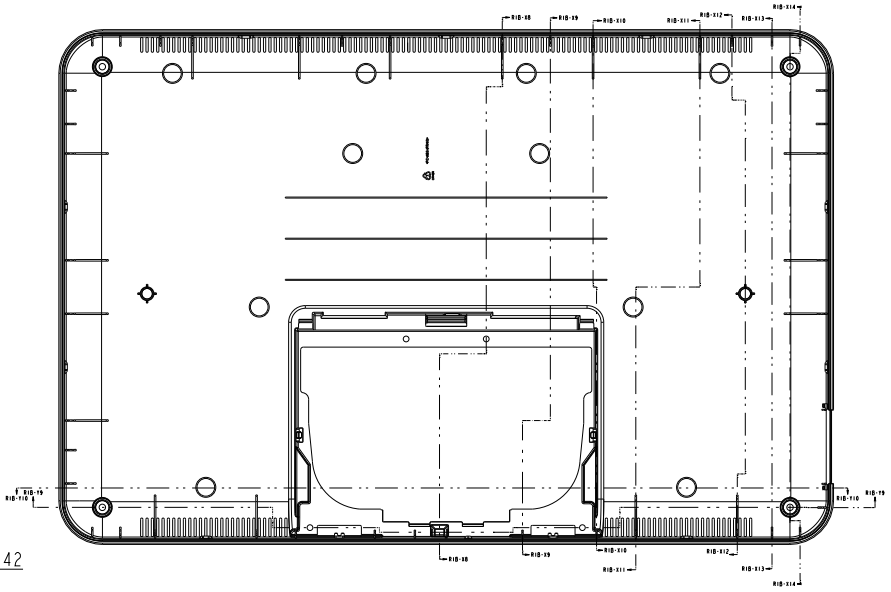

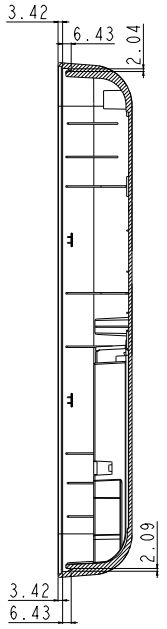

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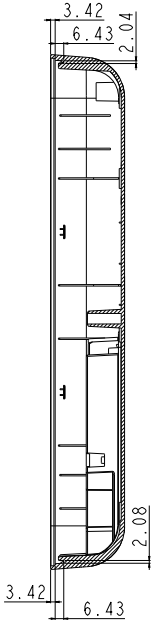

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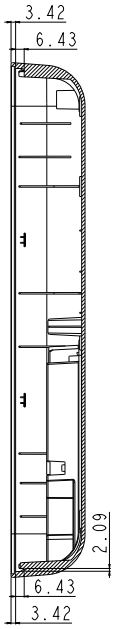
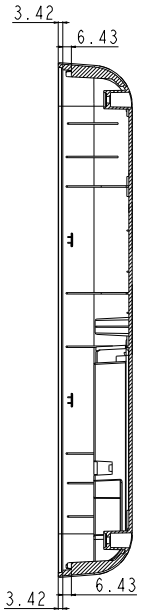
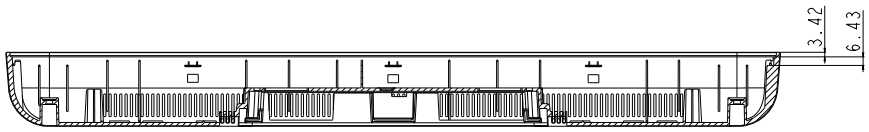


SECTION R1B-X13-R1B-X13



SECTION R1B-X14-R1B-X14



SECTION R1B-Y9-R1B-Y9

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION V f	m	c	THIRD ANGLE PROJECTION	UNITS: mm	SCALE : 1/1	SHEET: 4 OF 4	MODEL NO.: 24" Epiq Premium
					MATERIAL: PC+ABS		TREATMENT: See Notes	
UP TO 30	±0.10	±0.20	±0.50	DSGD by Kate	2020.06.17	PART NAME: REAR COVER (24" EPIQ,WHITE 90273)		
ABOVE 30~120	±0.15	±0.30	±0.80	CHK by Laslie	2020.06.17			
ABOVE 120~315	±0.20	±0.50	±1.20	APVD by Laslie	2020.06.17	PART NO.: 3MD539PA01A		REV. A
ABOVE 315~1000	±0.30	±0.80	±2.00	APVD NO.: (M3211)	3D FILE NAME: 24_14601_REAR_COVER	DIVA Laboratories ,Ltd.		
ANGLE ±1° (±1.75/100)								

23 Jan., 2025, Houston, TX, USA, Version 4.6

Subject: Status of SABIC Petrochemicals Polymers Business Unit's Products with Respect to REACH-SVHC

Dear Most Valued Customer

Thank you for using SABIC products.

SABIC has manufacturing facilities in about 60 locations across 35 countries in the world. We manufacture and/or sell,

(i) **CYCOLAC™, CYCOLOY™, GELOY™, LEXAN™, VALOX™, XENOY™, XYLEX™ resins, and**
(ii) **SABIC®PC.**

All existing grade-colour combinations of the above mentioned Resins / Compounds belonging to the SABIC Petrochemicals Polymers Business Unit, excluding experimental grades under ER, also except products which are designed to consume Post Consumer Recycle (PCR), are referred to in this document as 'SABIC Product(s)' here after.

The SABIC Products do not contain restricted substances mentioned below as intentionally added components [above 0.1%[a][b][c][d][e][f][g][h] w/w (each) threshold limits, if applicable], which refers to Registration, Evaluation, Authorization and Restriction of Chemical (EU REACH) Substances of Very High Concern (SVHC) on Regulation EC 1907/2006).

- Registration, Evaluation, Authorization and Restriction of Chemical (REACH) Substances of Very High Concern (SVHC) Ref : Regulation EC 1907/2006), as defined at: https://echa.europa.eu/candidate-list-table (Number of substances on the Candidate List: **247** as of **Jan 21, 2025**)

  [a] Except Grade EXRL0707,EXRL0708,EXRL0709,LUX2489D,ML9655, which contain Tetrabutylphosphonium Perfluorobutane Sulfonate (**$C_{20}H_{36}F_9O_3PS$**), CAS RN 220689-12-3, at over 0.1~1.5%. Products manufactured from these materials should be assessed and follow EU REACH SVHC obligation guidelines for article notification.

  [b] Except Grade: 515RU,EXRL0940,EXRL2154,EXRL2388,LUX7169,ML9624,ML9696,ML9696A, ML9696RC3, ML9696RC3A, ML9696RC6 ,ML9696RC6A, which contain Potassium Perfluorobutane Sulfonate (**KPFBS**) (**$C_4F_9O_3SK$**), CAS RN 29420-49-3, at over 0.1~5%. Products manufactured from these material should be assessed and follow EU REACH SVHC obligation guideline for article notification.

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[c] Except Grade: FR15, FR23, FR15C, FR23C, which contain 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA), CAS RN 79-94-7, at over 0.1~20%. Products manufactured from these material should be assessed and follow EU REACH SVHC obligation guideline for article notification.

[d] Except Grades 103, 123, 143, 153, 203, 243, 311, 364, 503, 923, 943, 953, 1731, 1850, 2034, 5730, 103R, 123HSR, 123M, 123R, 123SRM, 133R, 143R, 153R, 1576VTC, 163R, 1731J, 1760E, 2037E, 203R, 223M, 223R, 223RRW, 223S, 243R, 263R, 357U, 357XU, 3607U, 420SE0U, 503R, 503RLW, 503RS, 505RU, 505RURW, 513RS, 515RU, 5220U, 525RU, 553U, 5720U, 6620U, 8032U, 905AU, 915AU, 915RU, 923A, 925AU, 925U, 943A, 943ASR, 945AU, 945DU, 945U, 945URW, 953A, 955AU, 9915A, AT2030R, BFL2000U, CL100, CL100B, CL100S, CL500U, CR3020, CR7020, CR7500, CR7500HF, CR7520, CR8510, CU1650, EX1036T, EXRL1005, EXRL2013, EXRL2222, EXRL2229, EXXY1754, FR15U, FXTW26SK, FXW751SK, FXX210SK, FXX510SK, HF1130, HF1130R, HF1130RRW, HFR1723, HRA170D, HRA222F, IFX1850F, IFX3420Z, IFX5420Z, LG9000, LS1, LS2, LS3, LSHF, LUX2114, LUX2180T, LUX2289, LUX2614, LUX7189, LUX9230T, LUX9610, LUX9612, LUX9616, MC5300, ML3729, ML3729R, ML5369, ML7512, ML7550, ML7672, ML7690, ML7694, ML9043, ML9103, ML9103R, OQ2720, OQ2820, OQ3420, OQ3820, PU1230R, PU2030R, SD1248, SD1339, SHF3800UX, SR1310, T2NX2500UV, T2R223SC, T2RX2500UV, T3N8032U, T3N8032UX, T3R223SC, T3R505RUC, T3R8032UX, T5R141RCU, TLL12CU, TLL80CU, V3900WX, V3902WX, V8280SF, VR1820, VR2020, VR2220, VR2820, WF008NXPIQ, X2500UV, X5100, X5600WX, X7200, X7200MR, X7300, X7300CL, X7507, X8300, X8303, X8303CL, X8419, XL1339, XL1562, XP4025, XP4034, XP4045LG, XP7550, XR6200, XTPMFR10, XTWE480, XTWM206, ZLL19CU, which **may** contain **2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV329) ($C_{20}H_{25}N_3O$)**, CAS RN 3147-75-9, at 0.10~1.0%. In addition, Grade ER007306, FXW751SK, SD1336, SR1251, which **may** contain **UV329 ($C_{20}H_{25}N_3O$)**, CAS RN 3147-75-9, at 1.0~10%. Products manufactured from this material should be assessed and follow EU REACH SVHC obligation guidelines for article notification.

[e] Except some products mentioned in **Annex I**, which contain **2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV329) ($C_{20}H_{25}N_3O$)**, CAS RN 3147-75-9, at 0.10~1.0%. Products manufactured from this material should be assessed and follow EU REACH SVHC obligation guidelines for article notification.

[f] Except Grades: EXRL2163, LI1813R, OQ4005, OQ4120R, OQ4320, OQ4320R, OQ4620R, OQ4820, which contain **Bumetrizole (UV326) ($C_{17}H_{18}ClN_3O$)**, CAS RN 3896-11-5, at 0.1~0.5%. Products manufactured from this material should be assessed and follow EU REACH SVHC obligation guidelines for article notification.

[g] Except Grades: C3650, C2950HF, C9188, C2951, CY201, CY203, CY4000, MC5220, MC5400, HRA222, HRA222F,C2950HFRW, which contain **Triphenyl phosphate**, CAS RN 115-86-6, at 0.1~0.3%. Products manufactured from this material should be assessed and follow EU REACH SVHC obligation guidelines for article notification.

[h] Except Grades: C2950 (**from SABIC US, ROA region**), C2800,C6200, which contain **Triphenyl phosphate**, CAS RN 115-86-6, at 0.1~0.3%. Please be informed, these grades currently are in a

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transition phase to reduce the triphenyl phosphate level to < 0.1% (expected timeline: 6 months). You can contact your SABIC account manager for status updates.

For those except products in [a],[b],[c][d][e][f][g][h], the following legal obligations should be followed:

(i) SABIC customer service could provide the respective Grade-color product's EU region SDS, which will disclose any REACH SVHC listed substances (>0.1%) in section 3 and section 15;

(ii) EU and EEA suppliers of articles, which contain REACH SVHC listed substances above 0.1% w/w, have to provide sufficient information to allow safe use of the article to their customers. Upon request by a consumer, this information must be provided within 45 days of the receipt of the request;

(iii) EU and EEA producers or importers of articles have to notify ECHA if (a) the substance is present in those articles in quantities totaling over 1 ton per producer or importer per year and (b) their articles contain REACH SVHC listed substances above 0.1% w/w;

(iv) EU suppliers of articles containing REACH SVHC listed substances above 0.1% w/w when placing them on the EU market have to submit information on these articles to ECHA. This information will be published in the SCIP database established under the Waste Framework Directive (**WFD**).

We are disclosing the above information, to the best of our knowledge, based upon data from our raw material suppliers or manufacturers. Please note that analysis of the raw materials and/or SABIC Product(s) for presence of the above-mentioned substances on a routine basis neither is a part of our quality control plan, nor is a part of the SABIC Product specifications, and hence it shall not be construed as any warranty, expressed or implied.

Do note that the information above is current as of the date of this letter. This declaration replaces all previous ones relating to this subject matter and is, unless revoked in writing, valid for a period of one year as of the date of issuance, after which it will automatically expire. Should you have further questions about SABIC products, please contact your SABIC commercial representative, or customer services. You may also contact us on our website at https://www.sabic.com/en/contact, after selecting the option "*Products*" and your product, choose "*Regulatory*" as option under "*What is the nature of your inquiry*".

In the name of the manufacturer, for SABIC

Stephen S. Dimond, Ph.D. Stephen S. Dimond

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Enclosure: **Annex I**: Some SABIC products containing UV329 (CAS RN 3147-75-9) (>0.1%) as Color formulation

Annex I: Some Products containing UV329 (CAS RN 3147-75-9) (0.1-1.0%) as Color formulation

Trade Mark	Product Grade-Colors		Trade Mark	Product Grade-Colors
CYCOLOY™ resin	C1100HF-BK1594U		CYCOLOY™ resin	CY6110-GY6E285U
CYCOLOY™ resin	C1200HF-BK171915		CYCOLOY™ resin	CY6110-GY8D588U
CYCOLOY™ resin	C1200HF-BK1D144U		CYCOLOY™ resin	CY6110-WH5D228U
CYCOLOY™ resin	C1200HF-BK1G484U		CYCOLOY™ resin	CY6110-WH5E004U
CYCOLOY™ resin	C1200HF-GY11011U		CYCOLOY™ resin	XCY620-GY5A356U
CYCOLOY™ resin	C1200HF-GY14809U		CYCOLOY™ resin	XCY630-GY1D411U
CYCOLOY™ resin	C1200HF-GY2495		CYCOLOY™ resin	XCY630-GY1D705U
CYCOLOY™ resin	C1200HF-GY2858U		CYCOLOY™ resin	XCY630-GY9D142U
CYCOLOY™ resin	C1200HF-GY3D140U		CYCOLOY™ resin	C6600-WH8E020U
CYCOLOY™ resin	C1200HF-GY6469U		CYCOLOY™ resin	C6600-WH8E331U
CYCOLOY™ resin	C1200HF-GY676700		XYLEX™ resin	FXY330DF-NA9E064X
CYCOLOY™ resin	C1200HF-GY6A150U		GELOY™ resin	HRA150-BK1A107U
CYCOLOY™ resin	C1200HF-GY6A212U		GELOY™ resin	HRA170-BK1A243U
CYCOLOY™ resin	C1200HF-RD1224U		GELOY™ resin	HRA170-GY6469U
CYCOLOY™ resin	C1200HF-RD1D121U		GELOY™ resin	HRA170-WH4324
CYCOLOY™ resin	C1200HF-RD2D131U		GELOY™ resin	HRA222-GY7D107
CYCOLOY™ resin	C1200HF-WH6A155U		GELOY™ resin	HRA222-GY8D114
CYCOLOY™ resin	C2800-8T6D040U		GELOY™ resin	HRA222-WH4C030U
CYCOLOY™ resin	C2950-RD3A117U		GELOY™ resin	HRA222-WH6A089
CYCOLOY™ resin	C2950-YW8001S			

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Version: 25 Mar 2025

REGULATORY DATASHEET DECLARATION (RDS)
(For the SABIC Petrochemicals Polymers Business Unit)

Dear Most Valued Customer

Thank you for using SABIC products.

SABIC has manufacturing facilities in about 60 locations across 35 countries in the world. We manufacture and/or sell,

(i) CYCOLAC™, CYCOLOY™, GELOY™, LEXAN™, VALOX™, XENOY™, XYLEX™ resins, and
(ii) SABIC®PC.

All existing grade-colour combinations of the above mentioned Resins / Compounds belonging to the SABIC Petrochemicals Polymers Business Unit, except products which are designed to consume Post Consumer Recycle (PCR), are referred to in this document as 'SABIC Product(s)' here after.

This Regulatory Datasheet (RDS) covers the following content in this order:

- RoHS/ELV
- Packaging Directive
- Phthalate Directive
- ODS and Greenhouse Gas substances
- REACH Annex XIV
- REACH Registration
- VOC
- Natural Rubber and Natural Rubber Latex
- TSE/BSE/GMO
- Synthetic polymer micro-particles (REACH XVII Entry 78 Micro-plastics)
- PAH/PAK
- POPs, including PFOA, PFOS, PFCAs, PFHxS etc.
- Conflict Minerals
- TSCA Section 6(h) PBT Chemicals, and Certain other Restricted Substances

Status of SABIC Product(s) with respect to RoHS/ELV

The SABIC Products do not contain restricted substances mentioned below as intentionally added components or as expected process impurities [above the threshold limit of 0.1% w/w (each) except Cadmium, which has a threshold limit of 0.01% w/w], which refers to Directive 2011/65/EU, 2015/863/EU, 2017/2102/EU and amendments for Restriction of Hazardous Substances (RoHS), and Directive 2000/53/EC, 2016/774/EC and their amendments for End-of-Life Vehicles (ELV),

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- Lead and its compounds
- Mercury and its compounds
- Hexavalent Chromium compounds
- Cadmium and its compounds
- Polybrominated biphenyls (PBBs)
- Polybrominated diphenyl ethers (PBDEs)
- Bis(2-ethylhexyl) phthalate (DEHP)
- Butyl benzyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)

Status of SABIC Product(s) with respect to Packaging Directive

The SABIC Product's packaging does not contain restricted substances mentioned below as intentionally added components [above 0.01% w/w (sum of concentration levels, if applicable)], which refers to Packaging Directive 94/62/EC as amended by 2004/12/EC:

- Lead and its compounds
- Mercury and its compounds
- Hexavalent Chromium compounds
- Cadmium and its compounds

Status of our product(s) with respect to Phthalate Directive

The SABIC Products do not contain restricted substances mentioned below as intentionally added components or as expected process impurities [above 0.1% w/w (each) threshold limits], which refers to Phthalates Regulation (Ref: EU Directive 2005/84/EC, US EPA- Phthalates Action Plan 2012).

- Butyl benzyl phthalate (BBP, CAS# 85-68-7)
- Di-n-butyl phthalate (DBP, CAS# 84-74-2)
- Di(2-ethylhexyl)phthalate (DEHP, CAS# 117-81- 7)
- Di-isononyl phthalate (DINP, CAS# 28553-12-0)
- Di-isodecyl phthalate (DIDP, CAS# 26761-40-0)
- Di-n-octyl phthalate (DNOP, CAS# 117-84-0)
- Diisobutyl phthalate (DIBP, CAS# 84-69-5)
- Di-n-pentyl phthalate (DNPP, CAS# 131-18-0)
- Di-n-hexyl phthalate (DNHP, CAS# 84-75-3)

Status of SABIC Product(s) with respect to ODS and Greenhouse Gas substances

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The SABIC Products do not contain restricted substances mentioned below as intentionally added components [above 0.1% w/w (each) threshold limits, if applicable], which refers to Ozone layer-Depleting Substances (ODS) on Annex A, B, C, E and F to the MONTREAL PROTOCOL and listed as class I & II of US Clean Air Act, and EC Regulation 2024/590 Annex I and Annex II.

- As defined by Annex A, B, C, E and F to the MONTREAL PROTOCOL at https://ozone.unep.org/treaties/montreal-protocol/montreal-protocol-substances-deplete-ozone-layer
- As listed as class I & II substances by the US Clean Air Act at https://www.epa.gov/ozone-layer-protection/ozone-depleting-substances
- As defined by Annex I and Annex II to Regulation (EC) No 2024/590 at https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:L_202400590 (published 7 Feb. 2024)

The SABIC Products do not contain restricted substances mentioned below as intentionally added components [above 0.1% w/w (each) threshold limits, if applicable], which refers to Fluorinated greenhouse gases on REGULATION (EU) No 573/2024.

- As defined by REGULATION (EU) No 573/2024, subject to Emission Limits/ Reporting (Annexes I,II) at https://eur-lex.europa.eu/eli/reg/2024/00573/oj (issued on 7 February 2024)

Status of SABIC Product(s) with respect to REACH Annex XIV

SABIC Products do not contain substances mentioned below as intentionally added components or potential process impurities [above 0.1% w/w (each) threshold limit, if applicable], which refers to **Annex XIV** of **EU REACH**, amended through Regulation No 2022/586 of 8 April 2022.

- Substances listed in Annex XIV of REACH ("Authorization List"), as defined at https://echa.europa.eu/authorisation-list (59 substance/substance groups) on the date of this letter.

Status of SABIC Product(s) with respect to REACH Registration

Please note carefully that this declaration ONLY applies to customers that have purchased a product from SABIC Innovative Plastics B.V.
SABIC customers that ship SABIC products into the European Union (EU) as importer of record are themselves responsible for any obligations under REACH. SABIC will not act as or appoint an Only Representative.

REACH Regulation EC 1907/2006 is the European legislation aimed to regulate the **R**egistration, **E**valuation, **A**uthorization and **R**estriction of **C**hemical Substances. Under REACH chemical

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substances produced in the EU or imported into the EU at a volume >1000 kg per year need to be registered with ECHA, the European Chemicals Agency. The purpose of this Regulation is to ensure a high level of protection of human health and the environment, including the promotion of alternative methods for assessment of hazards of substances, as well as the free circulation of substances on the internal market while enhancing competitiveness and innovation.

The SABIC REACH program is designed to support continued availability of finished goods (polymer preparations, film, and sheet) for SABIC customers in Europe.

(i) Main focus of our REACH program is on the registration of substances, such as intermediates and monomers, for the manufacture of resins and compounded polymer mixtures, of which SABIC is the producer or the importer of record.
(ii) SABIC is pleased to inform you that SABIC has successfully completed the registration of those substances for which SABIC had a registration deadline of November 30, 2010, May 31, 2013, and May 31, 2018. For selected substances SABIC took the initiative to act as Lead Registrant.
(iii) SABIC will continue to work closely with external REACH experts to ensure registration dossier accuracy and completeness. These resources will not only facilitate timely dossier availability and submission but will also provide additional REACH legislative expertise.
(iv) SABIC will extend its global vendor collaboration program to make certain that also for sourced substances timely REACH compliance is ensured so that SABIC as a downstream user in future will have continued access to compliant sourced raw materials.
(v) SABIC committed to the CEFIC REACH Action Plan for Review/ Improvement of Registration Dossiers. The Action plan will encourage and support companies in evaluating existing registration dossiers and implement follow up actions, while keeping close contact with ECHA and its strategy.
(vi) Unfortunately SABIC is not in a position to communicate registration program details at a substance level since this potentially could imply revealing business confidential details of SABIC material technology.
(vii) Should a SABIC customer ship a SABIC product into the EU as importer of record, the customer will have to fulfil its own REACH obligations. SABIC will not act as nor will it appoint an Only Representative.
(viii) SABIC has meanwhile completed a CLP (Classification, Labelling and Packaging, Regulation EC 1272/2008) notification to ECHA for those substances from its raw material portfolio to date impacted by the CLP regulation.

While SABIC will continue to update its customers regarding implementation of our REACH program throughout future registration phases, our customers remain responsible for complying with their own REACH obligations.

Additional information and guidance regarding your potential obligations under REACH is available at http://echa.europa.eu/.

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In summary, SABIC considers itself in compliance with both the REACH Regulation EC 1907/2006 as well as the CLP Regulation EC 1272/2008. This will enable continued availability of compliant SABIC products for its customers.

Status of SABIC Product(s) with respect to VOC

The SABIC Products may contain volatile organic compounds (VOC) < 3% w/w and the SABIC Products may be called "VOC-duty free" with reference to the definition given in the Swiss VOC Verordnung (issued on November 12, 1997 and effective from January 1, 1998).

Status of SABIC Product(s) with respect to Natural Rubber and Natural Rubber Latex

Neither the SABIC Products nor the process equipment coming in direct contact with them during manufacturing contain Natural Rubber Latex (NRL) or Natural rubber (ref: Latex-MEDDEV. 2.5/9 rev.1) as intentionally added components or as expected process impurities [above the threshold limits of 0.1% w/w].

Status of SABIC Product(s) with respect to TSE/BSE/GMO

The SABIC Products are mainly of petrochemical origin. Some of our above products contain additives, or their raw material based on materials of animal (ovine or bovine tissue) origin. These additives or their raw materials extracted from ovine or bovine origin (fatty acids, fatty alcohols, metallic soaps, fatty amines, fatty amides, fatty acid esters, glycerin etc) are normally incorporated into plastics as lubricants, slip agents, anti-static agents, emulsifiers, anti-oxidants or corrosion inhibitors as an important component to achieve certain functional properties required for the end use.

As informed by our suppliers, during manufacturing process of these additives the ovine or bovine originated material is exposed to high temperatures and undergoes rigorous chemical reactions exceeding the stringent requirements mentioned in the "Opinion of the Scientific Steering Committee of Feb. 19-20, 1998" or "Note for Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Medicinal Products" of March 25 1999 (CPMP/BWP/1230/98) respectively and in the document WHO/CDS/VPH/95.145. These conditions are considered to be sufficient to inactivate Genetically Modified Organisms (GMO) &/or Transmissible Spongiform Encephalopathies (TSE) &/or Bovine Spongiform Encephalopathy (BSE) transmitters.

Further, during the manufacturing process of these resins, compounds and sheets at SABIC, the ovine or bovine material is further exposed to high temperature/pressure, which is considered (the fact of being exposed) to be sufficient to inactivate any active prions present.

In view of the repeated chemical/heat/pressure treatments that the additives undergo in the various successive process steps of manufacturing of the SABIC Products, it is considered that the SABIC Products do not pose any threat in the context of GMO and/or TSE/BSE. Furthermore, we believe that SABIC Products do not pose any risk of transmitting animal spongiform

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encephalopathy agents via human and veterinary medicinal products (per the Note on Guidance EMA/410/01 rev.3) (2011/C 73/01).

Status of SABIC Product(s) with respect to REACH restriction on intentionally added Synthetic Polymer Micro-particles (REACH XVII Entry 78 Microplastics)

On 25 September 2023, The European Commission introduced a sale ban of microplastics, REGULATION (EU) 2023/2055, in a range of products including cosmetics, household, industrial detergents, household and cleaning products or granular infill for use on synthetic sports surfaces with a sector-specific transition period.

The adopted restriction uses a broad definition of microplastics – it covers all synthetic polymer particles below five millimeters that are organic, insoluble and resist degradation, however only microparticles added intentionally to mixtures (and products) are in scope from the sale ban.

Manufacturers and industrial downstream users of synthetic polymer microparticles in the form of pellets, flakes, and powders used as feedstock in plastic article manufacturing at industrial sites are exempt from the sales ban (Paragraph 4(1)).

The restriction still introduces certain provisions to Manufactures to provide (1) instructions for use and disposal (from 17 October 2025) to industrial downstream users and (2) reporting obligations to the Authorities related to pellet losses to the environment (31 May 2026).

Please be aware that the Safety Data Sheet as supplied by SABIC already provide instructions for use and disposal explaining how to prevent releases of plastic resins and compounds to the environment.

This declaration applies to the material as it leaves its production facilities. It does not cover any substance(s) or preparation(s) subsequently added and/or material processing or article fabrication further down in the supply chain.

Status of SABIC Product(s) with respect to PAH/PAK

The SABIC Products do not contain restricted Polycyclic Aromatic Hydrocarbons (PAHs) mentioned below as intentionally added components [above 0.1% w/w (each) threshold limits, if applicable], which refers to Entry 50 of Annex XVII to Regulation EC 1907/2006 and AfPS GS 2019:01 PAK related Restriction of PAHs Hazardous Substances requirements.

- Anthracene (CAS# 120-12-7)
- Benzo(a)anthracene (CAS# 56-55-3)
- Benzo(a)pyrene (CAS# 50-32-8)
- Benzo(e)pyrene (CAS# 192-97-2)
- Benzo(b)fluoranthene (CAS# 205-99-2)
- Benzo(g,h,i)perylene (CAS# 191-24-2)
- Benzo(j)fluoranthene (CAS# 205-82-3)

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- Benzo(k)fluoranthene (CAS# 207-08-9)
- Chrysene (CAS# 218-01-9)
- Dibenzo(a,h)anthracene (CAS# 53-70-3)
- Fluoranthene (CAS# 206-44-0)
- Indeno(1,2,3-c,d)pyrene (CAS# 193-39-5)
- Naphthalene (CAS# 91-20-3)
- Phenanthrene (CAS# 85-01-8)
- Pyrene (CAS# 129-00-0)

Status of SABIC Product(s) with respect to POPs

The SABIC Products do not contain restricted substances mentioned below as intentionally added components or as expected process impurities [above corresponding threshold limits mentioned below, if applicable], which refers to those substances listed on Annex A, B and C of the Stockholm Convention on Persistent Organic Pollutants (POPs) and Annex I, II and III to REGULATION (EU) 2019/1021 and its all-existing amendments,

- DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane) (CAS# 50-29-3, 8017-34-3, 50 mg/kg)
- Chlordane (CAS# 57-74-9, 50mg/kg)
- Dieldrin (CAS# 60-57-1, 50mg/kg)
- Endrin (CAS# 72-20-8, 50mg/kg)
- Heptachlor (CAS# 76-44-8, 50mg/kg)
- Hexachlorobutadiene (CAS# 87-68-3, 100mg/kg)
- Technical endosulfan, and its related isomers (CAS# 115-29-7, 959-98-8, 33213-65-9, 1031-07-8, 50mg/kg)
- Hexachlorobenzene (HCB) (CAS# 118-74-1, 50mg/kg)
- Chlordecone (CAS# 143-50-0, 50mg/kg)
- Polychlorinated biphenyls (PCB) (CAS# 1336-36-3, 50mg/kg)

- Perfluorooctanoic acid (**PFOA**) and its salts (CAS# 335-67-1 and others, 0.025 mg/kg w/w). Individual PFOA-related compound or a combination of PFOA-related compounds, (CAS# others, 1mg/kg w/w)
- Perfluorooctane sulfonic acid (**PFOS**), its derivatives ($C_8F_{17}SO_2X$) (CAS# 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 4151-50-2, 31506-32-8, 1691-99-2, 24448-09-7, 307-35-7, total 10mg/kg)
- The sum of C_9-C_{14} **PFCAs** and their salts (CAS# 375-95-1, 335-76-2, 2058-94-8, 307-55-1, 72629-94-8, 376-06-7 and others, 25ppb, i.e. 0,0000025 %w/w); The sum of C_9-C_{14} **PFCA**-related substances (CAS# 375-95-1, 335-76-2, 2058-94-8, 307-55-1, 72629-94-8, 376-06-7 and others , 260 ppb, i.e. 0,000026 %w/w)
- Perfluorohexane sulfonic acid (**PFHxS**), its salts and PFHxS-related compounds (CAS # 355-46-4 and others, 0,025 mg/kg w/w individually or the sum of all compounds equal or below 1 mg/kg w/w)

- Aldrin (CAS# 309-00-2, 50mg/kg)

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- Hexachlorocyclohexanes, including lindane (CAS# 58-89-9, 319-84-6, 319-85-7,608-73-1, 50mg/kg)
- Pentachlorobenzene (PECB) (CAS#608-93-5, 50mg/kg)
- Polychlorinated naphthalenes (1 or more chlorine atoms) (CAS# 28699-88-9, 1321-65-9, 1335-88-2, 1321-64-8, 32241-08-0, 1335-87-1, 2234-13-1, 70776-03-3, 90-13-1, 91-58-7, 10mg/kg)
- Mirex (Perchlordecone); Dodecachlorooctahydro-1,3,4-metheno-2H-cycrobuta(cd)pentalene (CAS# 2385-85-5, 50mg/kg)
- Polybromodiphenyl ethers (Br=4-7) (PBDEs) (CAS# 40088-47-9, 32534-81-9, 36483-60-0, 68928-80-3 , Total 500mg/kg)
- Toxaphene (CAS#8001-35-2, 50mg/kg)
- Hexabromobiphenyl (CAS#36355-01-8, 50 mg/kg)
- Polychlorinated dibenzofurans (PCDF) (15 ug/kg)
- Polychlorinated dibenzo-p-dioxins (PCDD) (15 ug/kg)

- Hexabromocyclododecane (HBCDD) (CAS# 3194-55-6, 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8, 75mg/kg)

- Short-chained chlorinated paraffins-C10-13 (SCCP) (CAS# 85535-84-8, 0.1% w/w)
- Decabromodiphenyl ether (decaBDE) (CAS# 1163-19-5, 10mg/kg)
- Pentachlorophenol (CAS# 87-86-5, 5 mg/kg)
- Pentachloroanisole (CAS# 1825-21-4, 0.1% w/w)
- Sodium pentachlorophenate (CAS# 131-52-2, 0.1 % w/w)
- Pentachlorophenyl laurate (CAS# 3772-94-9, 0.1 % w/w)
- Sodium pentachlorophenate monohydrate (CAS# 27735-64-4, 0.1% w/w)
- Dicofol (CAS# 115-32-2, 0.1% w/w)

- Methoxychlor (CAS# 72-43-5, 30667-99-3, 76733-77-2, 255065-25-9, 255065-26-0, 59424-81-6, 1348358-72-4 and others, 0.01mg/kg)

Status of SABIC Product(s) with respect to Title XV, Section 1502 "Conflict Minerals" of the Dodd-Frank Wall Street Reform and Consumer Protection Act

Title XV section 1502 "Conflict Minerals" of the Dodd-Frank Wall Street Reform and Consumer Protection Act requires U.S. and foreign publicly-traded companies to report to the Securities and Exchange Commission whether their products may contain certain metals (tungsten, tin, tantalum and gold) which are considered "conflict minerals" because they are mined in the Democratic Republic of the Congo (DRC) or adjoining countries. Companies subject to the law are required to file their annual reports by **May 31, 2024**.

The vast majority of the "SABIC Products" do not contain tungsten, tin, tantalum or gold.

If you are buying a "SABIC Products" other than those listed below [1], this letter certifies that the product(s) you are buying do not contain tungsten, tin, tantalum, or gold necessary to the functionality or production of the product.

Note [1] Requiring Further Conflict Minerals Certification from SABIC for below products

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- CYCOLOY™ resin:
  C2100HF-GY8761L, C2100HF-WH6207L, C2100HF-YW7A253L,
  C2100-YW7A253L, C2950-WH7A291L
- GELOY™ resin: XP4025-BK2101S
- LEXAN™ resins: IFX3420Z-GN2D042T, IFX5420Z-GN1D070T
- XYLEX™ resin:
  FXY310DM-BK1A220, FXY310DM-BL3A444G,
  FXY310DM-BL3B228G, FXY310DM-GY7D420G

Status of SABIC Product(s) with respect to TSCA Section 6(h) PBT Chemicals and certain restricted substances

The SABIC Products do not contain substances mentioned below as intentionally added components, which are required under the Toxic Substances Control Act (TSCA), as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act (five final rules issued by EPA on January 6, 2021) (Persistent, Bio-accumulative, and Toxic (**PBT**) Chemicals under **TSCA Section 6(h)**).

- Phenol, isopropylated, phosphate (3:1) (CAS# 68937-41-7)
- DecaBDE (decabromodiphenyl ether (CAS# 1163-19-5)
- HCBD (hexachlorobutadiene (CAS# 87-68-3)
- 2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP) (CAS# 732-26-3)
- Pentachlorothiophenol (PCTP) (CAS# 133-49-3)

The SABIC Products do not **Contain Restricted Substances** mentioned below as intentionally added components or as expected process impurities [above corresponding threshold limits mentioned below, if applicable]:

- Dimethyl fumarate (CAS# 624-49-7, 0.1mg/kg)
- Polychlorinated terphenyls (PCTs) (CAS# 61788-33-8, 50mg/kg)
- Tri(1,3-dichloro-2-propyl)phosphate (TDCPP) (CAS# 13674-87-8, 0.1% w/w)
- Tris(2-chloroethyl)phosphate (TCEP) (CAS# 115-96-8, 0.1% w/w)
- Tris(1-chloro-2-propyl)phosphate (TCPP) (CAS# 13674-84-5, 0.1% w/w)
- 1,1,1-Trichloroethane (CAS# 71-55-6, 0.1% w/w)
- Trichloroethylene (CAS# 79-01-6, 0.1% w/w)
- 4-Aminodiphenyl (0.1% w/w)
- 4-Nitrodiphenyl (0.1% w/w)
- Asbestos (CAS# 1332-21-4, 0.1% w/w)
- Azo colourants, releasing certain carcinogenic aromatic amines (0.1% w/w)
- Benzene (CAS# 71-43-2, 0.1% w/w)
- Formaldehyde (CAS# 50-00-0, 0.1% w/w)
- Picric acid (CAS# 88-89-1, 0.1% w/w)

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- Radio-active substances (Uranium, Plutonium, Radon, Americium, Thorium) (0.1% w/w)
- Short-chain chlorinated paraffin-C10-13, Medium-chained chlorinated paraffin-C14-C17 (0.1% w/w)
- Dibutyltin compounds, Dioctyltin compounds (0.1% w/w)
- Tributyl tin and triphenyl tin compounds (0.1% w/w)
- Halon group including dibromotetrafluoroethane (0.1% w/w)
- Red Phosphorus (CAS# 7723-14-0, 0.1% w/w)
- Beryllium oxide (0.1% w/w)
- Bis(2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP),Benzyl butyl phthalate (BBP), Diisobutyl phthalate (DIBP), (CAS# 117-81-7, 84-74-2, 85-68-7, 84-69-5, Total 0.1wt%)
- Phenol, isopropylated phosphate (3:1) (PIP (3:1)) (CAS# 68937-41-7, 0.1% w/w)
- 2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP) (CAS# 732-26-3, 0.1% w/w)
- Pentachlorothiophenol (PCTP) (CAS# 133-49-3, 0.1% w/w)
- 1,4:7,10-Dimethanodibenzo[a,e]cyclooctene,1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro- (DP) (CAS# 13560-89-9, 0.1% w/w)
- 1,2-Bis(pentabromophenyl) ethane (DBDPE) (CAS# 84852-53-9, 0.1% w/w)

Although the above-mentioned substances as such are not intentionally added to SABIC Product(s) above their regulatory de minimis (if one exists). This does not exclude the presence of negligible traces amounts due to, for example, impurities in the components made by our raw material suppliers or manufacture.

We are disclosing above information, to the best of our knowledge, based upon data from our raw material suppliers or manufacturers. Please note that analysis of the raw materials and/or SABIC Product/s for presence of the above-mentioned substances on a routine basis neither is a part of our quality control plan, nor is a part of the SABIC Product specifications, and hence it shall not be construed as any warranty, expressed or implied.

We recommend that users take appropriate precaution during storage, transportation and use of SABIC Products to avoid contamination and deterioration. Please refer to the SABIC Product's Safety Data Sheet (SDS) before use and consult SABIC representative, if there are further needs.

This declaration applies to the material as it leaves its production facilities. It does not cover any substance(s) or preparation(s) subsequently added and/or improper material processing or article fabrication further down the supply chain.

Please be informed that certain products are designed to consume Post Consumer Recycle (PCR) for environmental waste reduction. The details about use of the PCR, if any, are stated in the respective SDS. Please contact our Customer Service or Product Stewardship team representative to request information regarding the chemical compliance attributes of these PCR-containing products, which may differ from those referred to in this letter.

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In the name of the manufacturer, for SABIC

Stephen S. Dimond

Stephen S. Dimond, Ph.D.

Sr. Manager, Global Product Stewardship
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SAFETY DATA SHEET

1. IDENTIFICATION

Trademark	:	CYCOLOY™ resin
Product name	:	C6600-111
Product description	:	Polycarbonate / Poly (acrylonitrile-butadiene-styrene) Blend
Appearance	:	pellets
Chemical nature	:	Mixture
Recommended use	:	May be used to produce molded or extruded articles or as a component of other industrial products. Manufacture of plastics products, including compounding and conversion
Restrictions on use	:	For industrial use only.
Supplier	:	SABIC Innovative Plastics (China) Ltd.or SABIC Innovative Plastics International Trading Shanghai Ltd. 2550 Xiupu Road, Pudong New Area, Shanghai 201319, China Contact Telephone: +86-400-833-1033
Emergency SABIC Telephone #	:	China: +86 532 83889090
Emergency Transportation #	:	CHEMTREC, U.S. : (800) 424-9300 International: +1 (703) 527-3887
E-mail address	:	sds.info@sabic.com
Website	:	http://www.sabic.com

2. HAZARDS IDENTIFICATION

GHS Remark
The additives in this product (if any) are bound in a thermoplastic resin matrix. In accordance with GHS for the classification of the product, the hazard potential may be assessed with respect to the physico-chemical form and/or bioavailability of the individual components in the thermoplastic resin. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans. The European CLP Regulation also mentions, that no classification is indicated if the mechanism is not relevant to humans. Where GHS classifications are shown below, these are based on the individual components in the thermoplastic resin matrix. Under the typical use conditions for the resin, these hazardous components are unlikely to contribute to workplace exposure. Please read the entire safety data sheet and/or consult an EHS professional for a complete understanding.

GHS Classification
Not a hazardous substance or mixture.

GHS Label element
Not a hazardous substance or mixture.

Other hazards which do not result in classification

SABIC Emergency Overview
Pellets with slight or no odor
Spilled material may create slipping hazard.
Can burn in a fire creating dense, toxic smoke
Molten plastic can cause severe thermal burns
Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever.
Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

Other information
OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

Processing Issues
Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin.

Aggravated Medical Condition
MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration
Triphenyl Phosphate	115-86-6	>= 0.1 - < 0.3 %

Components which are considered potential hazards to health or the environment, if present above minimum concentrations, are listed above. Any concentration shown as a range is to protect confidentiality and/or is due to batch variation. Any non-hazardous components are being withheld as a trade secret. This product consists primarily of high molecular weight polymers which are not expected to be hazardous. Furthermore, any additives in this product are present within the polymer matrix and are not expected to be hazardous under recommended use conditions. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

General advice : Thermal decomposition can lead to release of irritating gases and vapours. Move the victim to fresh air. Obtain medical attention.

If inhaled	:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	:	After contact with skin, wash immediately with plenty of cold water. Wash off immediately with soap and plenty of water. Consult a physician. If skin irritation persists, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Negligible or unlikely exposure pathways If accidentally swallowed obtain immediate medical attention.
Notes to physician	:	No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use dry chemical, CO2, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Material is not sensitive to mechanical impact.
Hazardous combustion products	:	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, hydrogen cyanide, nitrogen oxides. If present, certain hazardous additives can also liberate halogenated hydrocarbons.
Specific extinguishing methods	:	Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapours.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Stay upwind/ keep distance from source.
Explosive properties	:	Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Take precautionary measures against static discharges.

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Should not be released into the environment. SABIC is committed to implementing Responsible Care® and global sustainability programs (such as The Alliance to End Plastic Waste, Operation Clean Sweep®, etc.) throughout the value chain that are designed to prevent and address accidental releases into the environment. Accordingly, SABIC recommends implementation of systems and practices by downstream users to prevent and address incidental releases in order to protect the aquatic environment from potential (long term) negative effects of plastic materials.
Methods and materials for containment and cleaning up	:	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed. Open containers only in well-ventilated area.
Avoidance of contact	:	No special restrictions on storage with other products.

Storage

Conditions for safe storage	:	Keep tightly closed in a dry and cool place. Keep away from heat and sources of ignition. Residual monomer vapors can accumulate in the headspace of closed containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Reference
Triphenyl Phosphate	115-86-6	TWA	3 mg/m3	ACGIH
Further information: Cholinesterase inhibition				

Engineering measures	:	Handle in accordance with good industrial hygiene and safety practice. Provide appropriate exhaust ventilation at machinery. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.

Personal protective equipment

Respiratory protection	:	Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.
Eye/face protection	:	Safety glasses with side-shields Chemical resistant goggles must be worn.
Skin and body protection	:	Long sleeved clothing

Hand protection

Material	:	Wear protective gloves.
Protective measures	:	Wear suitable protective equipment.
Hygiene measures	:	Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets
Physical state	:	solid
Colour	:	natural
Odour	:	none or slight
Odour Threshold	:	No information available.
pH	:	No data available
Melting point/range	:	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
Boiling point/boiling range	:	not determined
Flash point	:	Not applicable
Flammability	:	No information available.
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined
Vapour pressure	:	negligible
Relative vapour density	:	not determined
Relative density	:	>1 (water = 1)
Density	:	not determined
Bulk density	:	500 kg/m3
Water solubility	:	insoluble
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No information available.
Auto-ignition temperature	:	630 °C estimated
Decomposition temperature	:	> 350 °C To avoid thermal decomposition, do not overheat.
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable at normal ambient temperature and pressure.

Hazardous polymerisation does not occur.

Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended periods of time.
Incompatible materials	:	No special restrictions on storage with other products.
Hazardous decomposition products	:	Process vapors under recommended processing conditions may include trace levels of, hydrocarbons, phenols, alkylphenols, diarylcarbonates, styrene, acrylonitrile, acrolein, acetaldehyde, acetophenone, ethyl benzene, cumene, alpha methylstyrene, 4-vinylcyclohexene, phenols

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity
Remarks: >5000 mg/kg (estimated)

Acute dermal toxicity
Remarks: >2000 mg/kg (estimated)

STOT - repeated exposure

Components:

115-86-6:

Components	Exposure routes	Target Organs	Assessment
Triphenyl Phosphate		Blood, Nervous system, Peripheral nervous system	

Experience with human exposure

Product:

Inhalation	:	Remarks: Inhalation unlikely due to physical form. Processing fumes evolved at recommended conditions may contain trace amounts of hazardous chemicals. Extreme processing conditions or temperatures may result in higher levels. Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation duct work, molds, and other

surfaces can cause irritation and injury to skin.

Skin contact : Remarks: Not a hazard during normal industrial use. If present, some additives (like glass fiber or flame retardants) may cause skin irritation in susceptible persons.

Eye contact : Remarks: Resin particles, like other inert materials, are mechanically irritating to eyes.

Ingestion : Remarks: Ingestion unlikely due to physical form.

Further information

Product:

Special Studies: The toxicological data has been taken from products of similar composition.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

115-86-6:
Toxicity to fish

Components	Value type	Value	Species	Exposure time
Triphenyl Phosphate	LC50	0.36 mg/l	Oncorhynchus mykiss (rainbow trout)	96 h

Toxicity to daphnia and other aquatic invertebrates

Components	Value type	Value	Species	Exposure time
Triphenyl Phosphate	EC50	1 mg/l	Daphnia magna (Water flea)	48 h
Triphenyl Phosphate	EC50	0.36 mg/l	Chironomus sp. (midge)	48 h

Toxicity to algae

Components	Value type	Value	Species	Exposure time
Triphenyl Phosphate	EC50	2 mg/l	Pseudokirchneriella subcapitata (green algae)	96 h

M-Factor (Acute aquatic toxicity) 1

Toxicity to fish (Chronic toxicity)

Components	Value type	Value	Species	Exposure time
Triphenyl Phosphate	EC10	0.037 mg/l	Oncorhynchus mykiss (rainbow trout)	30 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Components	Value type	Value	Species	Exposure time

Triphenyl Phosphate	NOEC	0.254 mg/l	Daphnia magna (Water flea)	21 d

M-Factor (Chronic aquatic toxicity) 1

Ecotoxicology Assessment

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

115-86-6:
Biodegradability

Components	Test Type	Biodegradation	Result	Exposure time	Concentration	Inoculum
Triphenyl Phosphate	aerobic	83 - 94 %	Readily biodegradable	28 d	100 mg/l	activated sludge

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects

Product:

Additional ecological information Do not flush into surface water or sanitary sewer system. Ecological injuries are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods/Disposal considerations
Waste from residues : Waste must be classified and labelled prior to recycling or disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal.Where possible recycling is preferred to disposal or incineration. SABIC is committed to implementing Responsible Care® and global sustainability programs (such as The Alliance to End Plastic Waste, Operation Clean Sweep®, etc.) throughout the value chain that are designed to prevent and address accidental releases into the environment. Accordingly, SABIC recommends implementation of systems and practices by downstream users to prevent and address incidental releases

in order to protect the aquatic environment from potential (long term) negative effects of plastic materials.

Contaminated packaging : Where possible recycling is preferred to disposal or incineration. Can be landfilled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

UNRTDG
Not regulated as a dangerous good

National Regulations

GB 6944/12268
Not regulated as a dangerous good

15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:

REACH (European Union)	:	For further information, please contact: Manufacturer, importer, supplier
CH INV (Switzerland)	:	The formulation contains substances listed on the Swiss Inventory Not in compliance with the inventory
TSCA (USA)	:	On TSCA Inventory
DSL (Canada)	:	All components of this product are on the Canadian DSL
AICS (Australia)	:	On the inventory, or in compliance with the inventory
NZIoC (New Zealand)	:	On the inventory, or in compliance with the inventory
ENCS (Japan)	:	On the inventory, or in compliance with the inventory
ISHL (Japan)	:	For further information, please contact: Manufacturer, importer, supplier
KECI (Korea)	:	On the inventory, or in compliance with the inventory
PICCS (Philippines)	:	Polymer exemption On the inventory, or in compliance with the inventory
IECSC (China)	:	On the inventory, or in compliance with the inventory
TCSI (Taiwan)	:	For further information, please contact: Manufacturer, importer, supplier
EHSNR (Malaysia)	:	For further information, please contact: Manufacturer, importer, supplier

CICR (Turkey)	:	For further information, please contact: Manufacturer, importer, supplier

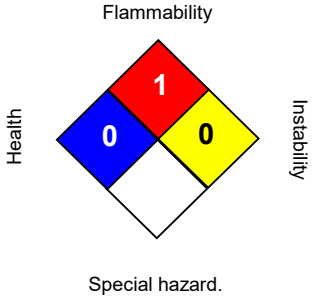
Other applicable national regulatory information
Not applicable

16. OTHER INFORMATION

Further information

Registered trademark	:	SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.
Prepared by	:	Product Stewardship

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Disclaimer
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End of Safety Data Sheet

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CERTIFICATE OF ANALYSIS

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175, CHANG SHOEI ROAD, CHANG HUA TAIWAN R.O.C.
TEL:(04)7524626-8 FAX:886-4-7611717

客戶代號 (Customer)		客戶編號 Customer No.		日 期 Date	2017/01/25
		訂單編號 Order No.		編 號 Certificate No.	
材質編號 Specification	C3604-3A	發票號碼 Invoice No.		交運日期 Shipping date	
尺 寸 Size	DIA. 4.75 MM	檢 驗 Inspection	Yuang Hsian mill inspection (chemical by X-ray/mechanical by computer universal)		

項目 Item No.	尺寸(mm) Size	重量 (kgs)	化學成分 銅 Cu	鋅 Zn	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr^{6}	錫 Sn	備註 Remark
規格值 (Requirement)			57.0 – 61.0	REM	< 3.5	< 0.0075	< 0.0075	< 0.0075	Fe+Sn<1.0	
	4.75		58.1	REM	2.7	< 0.0075	< 0.0075	< 0.0075	< 0.4	

			鐵 Fe	錳 Mn	銻 Sb	鋁 Al	其他 Others	試材編號
規格值 (Requirement)			< 0.5	———	———	———	———	
	4.75		< 0.4	———	———	———	———	

茲證明本表所列產品，均依材料規格製造及試驗，並符合規格之要求。
We hereby certify that the above results are true and correct in every detail.
備考 Remarks：

審核

張 國 桐

Surveyor：