

LEXAN™ SD8B94L FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ SD8B94L Film is a one side fine velvet (FV), one side fine matt (FM) clear transparent laser markable polycarbonate film that has specifically been designed to be used in government security documents, such as passport data pages, ID cards, driver licenses, ... It offers excellent printability and ease of processing (laminating, die-cutting, hot stamping). LEXAN™ SD8B94L Film is available in gauges ranging from 50-150µm.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	8122	ISO 527	MPa	56
Ultimate	ASTM D882	psi	8122	ISO 527	MPa	56
Tensile Modulus	ASTM D882	psi	311 x10 ³	ISO 527	MPa	2150
Tensile Elongation at Break	ASTM D882	%	85	ISO 527	%	85
Tear Strength						
Initiation	ASTM D1004	lbf	12	ASTM D1004	N	52
Propagation	ASTM D1938	lbf	0.6	ASTM D1938	N	2.8
THERMAL						
Coefficient of Thermal Expansion, flow	ASTM E831	(x 10 ⁻⁵ / °F)	4.3	ISO 11359	(x 10 ⁻⁵ / °C)	7.8
Glass Transition Temperature	ASTM D3418	°F	298	ISO 11357	°C	148
Vicat Softening Temperature, B50	ASTM 1525	°F	297	ISO 306	°C	147
Heat Deflection Temp. Af 120°C/h	ASTM D648	°F	261	ISO 75 Modified	°C	127
Shrinkage at 130°C, 30min	Internal method	%	0.14	Internal method	%	0.14
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.33	ISO 1183	g/cm ³	1.20
Water Absorption, 24 hrs.	ASTM D570	% change	0.17	ISO 62	% change	0.17
Surface Roughness Ra		µin	30 [FM]	ISO4288	µm	0.75 [FM]
			102 [FV]			2.6 [FV]
Surface Roughness R3z		µin	150 [FM]	ISO4288	µm	3.8 [FM]
			547 [FV]			13.9 [FV]
Surface Tension	Dyne solutions	Dyne/cm	40 [FM]	Dyne solutions	Dyne/cm	40 [FM]
			38 [FV]			38 [FV]
OPTICAL						
Light Transmission	ASTM D1003	%	87.8	ASTM D1003	%	87.8
Color: b-value	CIELab, Reflection, D65, 10°		2.43	CIELab, Reflection, D65, 10°		2.43

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC representative or the SABIC Quality Services Department. Reported Values are based on 0.250 mm (0.010") thickness film, except for the Coefficient of thermal expansion, Vicat softening temperature, Heat deflection temperature and water absorption, which are based on molded parts.

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MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.050 - 0.150 mm	± 5%

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LEXAN™ SD8B14 FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ SD8B14 Film is a one side fine velvet (FV), one side matt (M) clear transparent polycarbonate film that is typically used in governmental documents, such as passport data pages, ID cards, driving licenses, ... It offers great printability and ease of processing (laminating, die-cutting, embossing). LEXAN™ SD8B14 Film is available in gauges ranging from 30 - 400µm.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	8122	ISO 527	MPa	56
Ultimate	ASTM D882	psi	8122	ISO 527	MPa	56
Tensile Modulus	ASTM D882	psi	311 x10 ³	ISO 527	MPa	2150
Tensile Elongation at Break	ASTM D882	%	85	ISO 527	%	85
Tear Strength						
Initiation	ASTM D1004	lbf	12	ASTM D1004	N	52
Propagation	ASTM D1938	lbf	0.6	ASTM D1938	N	2.8
THERMAL						
Coefficient of Thermal Expansion, flow	ASTM E831	(x 10 ⁻⁵ / °F)	4.2	ISO 11359	(x 10 ⁻⁵ / °C)	7.5
Glass Transition Temperature	ASTM D3418	°F	298	ISO 11357	°C	148
Vicat Softening Temperature, B50	ASTM 1525	°F	295	ISO 306	°C	146
Heat Deflection Temp. Af 120°C/h	ASTM D648	°F	262	ISO 75 Modified	°C	128
Shrinkage at 130°C, 30min	Internal method	%	0.17	Internal method	%	0.17
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.33	ISO 1183	g/cm ³	1.20
Water Absorption, 24 hrs.	ASTM D570	% change	0.09	ISO 62	% change	0.09
Surface Roughness Ra		µin	35 [M]	ISO4288	µm	0.9 [M]
			91 [FV]			2.3 [FV]
Surface Roughness R3z		µin	165 [M]	ISO4288	µm	4.2 [M]
			484 [FV]			12.3 [FV]
Surface Tension	Dyne solutions	Dyne/cm	44 [M]	Dyne solutions	Dyne/cm	44 [M]
			37 [FV]			37 [FV]
OPTICAL						
Light Transmission	ASTM D1003	%	87	ASTM D1003	%	87
Color: b-value	CIE Lab, Reflection, D65, 10°		1.75	CIE Lab, Reflection, D65, 10°		1.75

- ◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC representative or the SABIC Quality Services Department. Reported Values are based on 0.250 mm (0.010") thickness film, except for the Coefficient of thermal expansion, Vicat softening temperature, Heat deflection temperature and water absorption, which are based on molded parts.

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MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.030 mm	± 10%
0.050 – < 0.250 mm	± 5%
0.250 – 0.400 mm	± 2.5%

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LEXAN™ SD8B24 FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ SD8B24 film is a one side fine velvet (FV), one side fine matte [FM] white opaque polycarbonate film that is typically used in governmental documents, such as passport data pages, ID cards, driving licenses, etc. It offers great printability and ease of processing (laminating, die-cutting, embossing). LEXAN SD8B24 film is available in gauges ranging from 50 – 620 µm and in color WH9B246.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	7542	ISO 527	MPa	56
Ultimate	ASTM D882	psi	7687	ISO 527	MPa	56
Tensile Modulus	ASTM D882	psi	355 x10 ³	ISO 527	MPa	2450
Tensile Elongation at Break	ASTM D882	%	50	ISO 527	%	50
Tear Strength						
Initiation	ASTM D1004	lbf	12	ASTM D1004	N	53
Propagation	ASTM D1938	lbf	0.6	ASTM D1938	N	2.5
THERMAL						
Coefficient of Thermal Expansion, flow	ASTM E831	(x 10 ⁻⁵ / °F)	3.9	ISO 11359	(x 10 ⁻⁵ / °C)	7.1
Glass Transition Temperature	ASTM D3418	°F	300	ISO 11357	°C	149
Vicat Softening Temperature, B50	ASTM 1525	°F	297	ISO 306	°C	147
Heat Deflection Temp. Af 120°C/h	ASTM D648	°F	270	ISO 75 Modified	°C	132
Shrinkage at 130°C, 30min	Internal method	%	0.10	Internal method	%	0.10
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.6	ISO 1183	g/cm ³	1.34
Water Absorption, 24 hrs.	ASTM D570	% change	0.12	ISO 62	% change	0.12
Surface Roughness Ra		µin	35 [FM]	ISO4288	µm	0.9 [FM]
			87 [FV]			2.2 [FV]
Surface Roughness R3z		µin	173 [FM]	ISO4288	µm	4.4 [FM]
			465 [FV]			11.8 [FV]
Surface Tension	Dyne solutions	Dyne/cm	44 [FM]	Dyne solutions	Dyne/cm	44 [FM]
			39 [FV]			39 [FV]

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
OPTICAL			WH9B246			WH9B246
Light Transmission	ASTM D1003	%	2.14	ASTM D1003	%	2.14
Optical density			1.67			1.67
Color:	CIELab, Reflection,			CIELab, Reflection,		
L-value	D65, 10°		94.79	D65, 10°		94.79
a-value			-0.09			-0.09
b-value			-2.31			-2.31

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MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.050 - < 0.250 mm	± 5%
0.250 – 0.620 mm	± 2.5%

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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) LEXAN™ film/sheet, LEXAN™ EXELL™ D sheet, NORYL™ film, ULTEM™ film/sheet, VALOX™ film, GEPAX™ sheet, MARGARD™ sheet, PLASTECH™ sheet, SOUNDGLAZE™ sheet, CLINIWALL™ sheet, SUNXP™ sheet, VEROLITE™ sheet, ILLUMINEX™ film, CARBORON™ sheet, THERMOCLICK™ sheet, THERMOCLEAR™ sheet, THERMOCLEAR-PLUS™ sheet, STADECK™ panel, LEXAPANEL™ building system, and
- (iii) SABIC®PC.

All existing grade-colour combinations of the above mentioned Resins / Films / Sheets /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-SVHC/EU Waste Framework Directive (WFD) and REACH Annex XIV
- REACH Registration
- VOC
- Natural Rubber and Natural Rubber Latex
- TSE/BSE/GMO
- PFOA, its salts and related compounds; PFCAs, its salts and related compounds
- PAH/PAK
- POPs
- 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

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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),

- 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)

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

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 1005/2009 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 1005/2009 at <https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:32009R1005> (published 16 Sept. 2009)

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 517/2014.

- As defined by REGULATION (EU) No 517/2014, subject to Emission Limits/ Reporting (Annexes I,II) at <https://eur-lex.europa.eu/legal-content/en/TXT/?uri=CELEX%3A32014R0517> (issued on 16 April 2014)

Status of SABIC Product(s) with respect to REACH SVHC/EU Waste Framework Directive (WFD) and REACH Annex XIV

The SABIC Products do not contain restricted substances mentioned below as intentionally added components [above 0.1%^[a]^[b]^[c] 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: 224 as of Jun 10th, 2022)

[a] Except Grade RL6724, which contain **UV-328**, CAS RN 25973-55-1, respectively at over 0.5% w/w. Products manufactured from the material should be assessed and follow EU REACH SVHC obligation guideline for article notification.

[b] Except Grade AD143,ER010707,EXRL0707,EXRL0708,EXRL0709,LUX2489D,ML9655,SD1426, which contain **Tetrabutylphosphonium Perfluorobutane Sulfonate (C₂₀H₃₆F₉O₃PS)**, 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.

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[c] Except Grade: 1000B,515RU,EFR535,EFR535A,EFR535AC,EFR565,EFR565A,EFR65, EFR65A, EFR65AC, EFR65CS,EFR75A,EFR75AC,EFR85,EFR85CS,EFR95,EFR95A,EFR95AC,EFR95CK,ES001818,ES002223,ES002224,EXRL0940,EXRL2154,EXRL2388,EXSP982,H6700, H6700N11, LUX7169, ML9624, ML9696, ML9696A, ML9696RC3, ML9696RC3A, ML9696RC6, ML9696RC6A, which contain **Potassium Perfluorobutane Sulfonate (KPFBS) (C₄F₉O₃SK)**, 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.

For the grade/products listed in [a][b][c], the customer may contact the respective SABIC business representative to obtain an updated version of the GHS/CLP SDS, which will disclose any REACH SVHC listed substances in section 3 or section 15 if it contains over 0.1% w/w within the product formulation.

Customers supplying articles manufactured from the above materials, when the concentration in these articles exceed 0.1% w/w, have to submit information on these articles to ECHA, as from 5 January 2021, according to art.9(1) of the **EU Waste Framework Directive (WFD)** (<https://echa.europa.eu/scip-database>)

SABIC Film and Sheet are considered articles under REACH. SABIC Film and Sheet manufactured from these materials and supplied by **SABIC Innovative Plastics B.V.** on the EU market are compliant with art.9(1) of the **EU Waste Framework Directive (WFD)** (<https://echa.europa.eu/scip-database>) for declared SVHCs in articles requirements.

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 Registration, Evaluation, Authorization and Restriction of Chemical Substances. Under REACH chemical 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.

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- (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/>.

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).

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

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Status of SABIC Product(s) with respect to Commission Regulation (EU) 2020/784 amending Annex I to Regulation (EU) 2019/1021 as regards the listing of perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds, and COMMISSION REGULATION (EU) 2021/1297 of 4 August 2021 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council as regards perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C₉-C₁₄ PFCAs), their salts and C₉-C₁₄ PFCA-related substances

On Commission Regulation (EU) 2020/784 amending Annex I to Regulation (EU) 2019/1021 regarding the listing of perfluorooctanoic acid (**PFOA**), its salts and PFOA-related compounds (EU POP Regulation for PFOA), effective July 4, 2020, SABIC provides the following information:

The SABIC Products do not contain perfluorooctanoic acid (PFOA), PFOA salts, or PFOA-related substances as intentionally added components.

To the extent the SABIC Products may contain any PFOA, PFOA salts, or PFOA-related compounds as impurities, such substances are present at (i) less than 0,025 mg/kg (0,000025 % w/w) of PFOA and PFOA salts, and (ii) less than 1 mg/kg (0,0001 % w/w) of any individual PFOA-related compound or a combination of PFOA-related compounds.

On COMMISSION REGULATION (EU) 2021/1297 of 4 August 2021 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council as regards perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C₉-C₁₄ **PFCAs**), their salts and C₉-C₁₄ **PFCA**-related substances, SABIC can provide the following information: :

Based on SABIC current product's formulation, the SABIC Products do not contain perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C₉-C₁₄ PFCAs) and their salts and C₉-C₁₄ PFCA -related substances as intentionally added components. Here PFCAs defined scope includes: (i) Linear and branched perfluorocarboxylic acids of the formula C_nF_{2n+1}-C(=O)OH where n = 8, 9, 10, 11, 12, or 13 (C₉-C₁₄ PFCAs), including their salts, and any combinations thereof, (ii) Any C₉-C₁₄ PFCA -related substance having a perfluoro group with the formula C_nF_{2n+1}- directly attached to another carbon atom, where n = 8, 9, 10, 11, 12, or 13, including their salts and any combinations thereof, (iii) Any C₉-C₁₄ PFCA -related substance having a perfluoro group with the formula C_nF_{2n+1}- that it is not directly attached to another carbon atom, where n = 9, 10, 11, 12, 13 or 14 as one of the structural elements, including their salts and any combinations thereof.

To the extent the SABIC Products may contain any chain (C₉-C₁₄ PFCAs) and their salts and C₉-C₁₄ PFCA-related substances as impurities, such substances are present at (i) less than 25ppb (0,000025 %by weight) for the sum of C₉-C₁₄ PFCAs and their salts, and (ii) less than 260 ppb (0,000026 %by weight) for the sum of C₉-C₁₄ PFCA-related substances.

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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)
- 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 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)
- Perfluorooctane sulfonic acid (PFOS), its derivatives (C₈F₁₇SO₂X) (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)
- 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, 100mg/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)

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, 2022.

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

- CYCOLOY™ resin:
C2100HF-GY8761L, C2100HF-WH6207L, C2100HF-YW7A253L,
C2100-YW7A253L, C2950-WH7A291L
- GELOY™ resin: XP4025-BK2101S
- LEXAN™ resins: IFX3420Z-GN2D042T, IFX5420Z-GN1D070T

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- PLASTECH™ sheet: PTS2RS830-SR8532M
- 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)
- 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)

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- 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.

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.

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Should you have further questions about SABIC products, please contact your SABIC commercial representative, or customer services or send an e-mail to contact pc.request@sabic.com (Europe or Middle East regions), or mdts.techhelp@SABIC.com (Americas regions), or asiaproductinquiries@sabic.com (Asia-Pacific region). 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

A handwritten signature in black ink, appearing to read "Gregory M. Porta".

Gregory M. Porta, Ph.D.
Director, Global Product Stewardship & Toxicology
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