

XYLEX™ Resin X8303 - Europe

Polycarbonate + Polyester

SABIC

PROSPECTOR®

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Technical Data

Product Description

PC+ POLYESTER, Transparent, Low processing Temperature, High flow with excellent impact, UV stabilized. For In Mold Decoration /Labeling.

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E45329-100113033
Search for UL Yellow Card	• SABIC • XYLEX™ Resin
Availability	• Europe
Uses	• Appliances • Electrical/Electronic Applications

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.20 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	30 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (265°C/2.16 kg)	27 cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.80 %	Internal Method
Water Absorption		ISO 62
Saturation, 23°C	0.50 %	
Equilibrium, 23°C, 50% RH	0.20 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	1680 MPa	ASTM D638
--	1690 MPa	ISO 527-1/1
Tensile Strength		
Yield ⁴	46.0 MPa	ASTM D638
Yield	48.0 MPa	ISO 527-2/50
Break ⁴	44.0 MPa	ASTM D638
Break	43.0 MPa	ISO 527-2/50
Tensile Elongation		
Yield ⁴	5.0 %	ASTM D638
Yield	6.0 %	ISO 527-2/50
Break ⁴	140 %	ASTM D638
Break	140 %	ISO 527-2/50
Flexural Modulus		
50.0 mm Span ⁵	1620 MPa	ASTM D790
-- ⁶	1720 MPa	ISO 178
Flexural Stress		
-- ^{6,7}	72.0 MPa	ISO 178
Yield, 50.0 mm Span ⁵	72.0 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁸ (23°C)	14 kJ/m ²	ISO 179/1eA
Notched Izod Impact		
-30°C	100 J/m	ASTM D256
23°C	1000 J/m	ASTM D256
-30°C ⁹	9.0 kJ/m ²	ISO 180/1A
23°C ⁹	20 kJ/m ²	ISO 180/1A
Instrumented Dart Impact		ASTM D3763
23°C, Total Energy	65.0 J	



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 3.20 mm	92.0 °C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	80.0 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm, 64.0 mm Span ⁹	90.0 °C	ISO 75-2/Af
Vicat Softening Temperature		
--	98.0 °C	ASTM D1525 ¹⁰
--	100 °C	ISO 306/B120 ISO 306/B50
CLTE		
Flow : -40 to 40°C	9.0E-5 cm/cm/°C	ASTM E831
Flow : 23 to 60°C	9.2E-5 cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	9.0E-5 cm/cm/°C	ASTM E831
Transverse : 23 to 60°C	9.8E-5 cm/cm/°C	ISO 11359-2
Optical	Nominal Value Unit	Test Method
Light Transmittance (2540 µm)	88.0 %	ASTM D1003
Haze (2540 µm)	2.00 %	ASTM D1003
Injection	Nominal Value Unit	
Drying Temperature	70 to 80 °C	
Drying Time	3.0 to 5.0 hr	
Suggested Max Moisture	0.020 %	
Rear Temperature	235 to 255 °C	
Middle Temperature	235 to 265 °C	
Front Temperature	240 to 270 °C	
Nozzle Temperature	240 to 270 °C	
Processing (Melt) Temp	240 to 270 °C	
Mold Temperature	50 to 70 °C	
Screw Speed	20 to 100 rpm	

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 5.0 mm/min

⁴ Type I, 50 mm/min

⁵ 1.3 mm/min

⁶ 2.0 mm/min

⁷ at Break

⁸ 80*10*4 sp=62mm

⁹ 80*10*4 mm

¹⁰ Rate A (50°C/h), Loading 2 (50 N)



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Where to Buy

Supplier

SABIC

Web: <http://www.sabic.com/>

Distributor

AECTRA

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: Bulgaria, Romania

AGI-Augusto Guimarães & Irmão

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

GRÄSSLIN

Telephone: +49-7721-4040-261

Web: <https://www.graesslin-kunststoffe.de>

Availability: Germany

Guzmán Polymers

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain, Turkey

Lenorplastics

Telephone: +41-61-706-11-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Czech Republic, Hungary, Poland, Slovakia

POLYMIX

POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Belgium, Netherlands, South Africa

