

SABIC Innovative Plastics XYLEX X8303 PC+POLYESTER (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X8303-PCPOLYESTER-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 265 ^o C	30 g/10 min @Load 4.76 lb, Temperature 509 ^o F	ASTM D1238
Melt Index of Compound	27 g/10 min @Load 2.16 kg, Temperature 265 ^o C	27 g/10 min @Load 4.76 lb, Temperature 509 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	50 mm/min; ISO 527
	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
	48.0 MPa	6960 psi	50 mm/min; ISO 527
Elongation at Break	140 %	140 %	50 mm/min; ISO 527
	140 %	140 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	1.68 GPa	244 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric 1.62 GPa	English 235 ksi	Comments 1 mm/min; ISO 527
Flexural Strength	72.0 MPa	10400 psi	2 mm/min; ISO 178
Flexural Yield Strength	72.0 MPa	10400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.62 GPa	235 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.72 GPa	249 ksi	2 mm/min; ISO 178
Izod Impact, Notched	10.0 J/cm	18.7 ft-lb/in	ASTM D256
	1.00 J/cm	1.87 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	80*10*4; ISO 180/1A
	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.40 J/cmÂ²	6.66 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	65.0 J	47.9 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	92.0 Âµm/m-Â°C	51.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	98.0 Âµm/m-Â°C	54.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	92.0 Â°C	198 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (204 psi)	80.0 Â°C	176 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	98.0 Â°C	208 Â°F	Rate B/50; ASTM D1525
	100 Â°C	212 Â°F	Rate B/50; ISO 306
	100 Â°C	212 Â°F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
	@Thickness 2.54 mm	@Thickness 0.100 in	
Transmission, Visible	88 %	88 %	2.54 mm; ASTM D1003

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