

SABIC Innovative Plastics Xylex X8303CL PC+POLYESTER

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP

Material Notes:

PC+ POLYESTER, Transparent, Low processing Temperature, High flow with excellent impact, UV stabilized, OQ quality. For In Mold Decoration /Labeling. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-X8303CL-PCPOLYESTER.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 ^o C	0.50 % @Temperature 73.4 ^o F	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	27 g/10 min @Load 2.16 kg, Temperature 265 ^o C	27 g/10 min @Load 4.76 lb, Temperature 509 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	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 D 1238

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 D 638
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D 638
	48.0 MPa	6960 psi	50 mm/min; ISO 527
Elongation at Break	140 %	140 %	Type I, 50 mm/min; ASTM D 638
	140 %	140 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
	6.0 %	6.0 %	50 mm/min; ISO 527

Tensile Modulus Mechanical Properties	1.68 GPa Metric	244 ksi English	5 mm/min; ASTM D 638 Comments
	1.69 GPa	245 ksi	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 D 790
Flexural Modulus	1.62 GPa	235 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.72 GPa	249 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.00 J/cm @Temperature -30.0 Â°C	1.87 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	10.0 J/cm @Temperature 23.0 Â°C	18.7 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	9.00 kJ/mÂ² @Temperature -30.0 Â°C	4.28 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	20.0 kJ/mÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.40 J/cmÂ² @Temperature 23.0 Â°C	6.66 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	65.0 J @Temperature 23.0 Â°C	47.9 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

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	
CTE, linear, Transverse to Flow	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	

Thermal Properties	98.0 Åum/m-Å°C Metric	54.4 Åuin/in-Å°F English	Comments ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	92.0 Å°C @Thickness 3.20 mm	198 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C @Thickness 3.20 mm	194 Å°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 Å°C @Thickness 3.20 mm	176 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	98.0 Å°C	208 Å°F	Rate B/50; ASTM D 1525
	100 Å°C	212 Å°F	Rate B/50; ISO 306
	100 Å°C	212 Å°F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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