

SABIC Innovative Plastics XYLEX X7300 PC+POLYESTER

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

Material Notes:

PC+POLYESTER unreinforced alloy. High flow, chemically resistant with excellent optical quality. UV-stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X7300-PCPOLYESTER.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	21 g/10 min	21 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 Â°C	@Load 4.76 lb, Temperature 509 Â°F	
Melt Index of Compound	21 g/10 min	21 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 265 Â°C	@Load 4.76 lb, Temperature 509 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Tensile Strength, Yield	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Elongation at Break	150 %	150 %	Type I, 50 mm/min; ASTM D638
	>= 150 %	>= 150 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	1.84 GPa	267 ksi	50 mm/min; ASTM D638
	1.90 GPa	276 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	71.0 MPa Metric	10300 psi English	2 mm/min; ISO 178 Comments
Flexural Yield Strength	83.0 MPa	12000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.94 GPa	281 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched	6.60 J/cm	12.4 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	95.0 J @Temperature 23.0 Â°C	70.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	47.2 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	115 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	63.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	85.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	47.2 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	105 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	58.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	102 Â°C @Thickness 3.20 mm	216 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	88.0 Â°C @Thickness 3.20 mm	190 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	106 Â°C	223 Â°F	Rate B/120; ISO 306
	108 Â°C	226 Â°F	Rate B/50; ASTM D1525

Optical Properties	Metric	English	Comments
	2.0 %	2.0 %	

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

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