SABIC Innovative Plastics Xylex X7300OQ PC+POLYESTER (Asia Pacific)

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

Material Notes:

PC+ POLYESTER unreinforced alloy developed for optical or lense market. High flow with good impact and excellent optical quality.This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-X7300OQ-PCPOLYESTER-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.18 g/cc	0.0426 lb/inÂ³	ISO 1183
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	21 g/10 min @Load 2.16 kg, Temperature 265 Â°C	21 g/10 min @Load 4.76 lb, Temperature 509 Â°F	ASTM D 1238
	21 g/10 min @Load 2.16 kg, Temperature 265 Â°C	21 g/10 min @Load 4.76 lb, Temperature 509 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D 638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Tensile Strength, Yield	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D 638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Elongation at Break	150 %	150 %	Type I, 50 mm/min; ASTM D 638
	>= 150 %	>= 150 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	1.84 GPa	267 ksi	50 mm/min; ASTM D 638
	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Strength	71.0 MPa	10300 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	83.0 MPa	12000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.94 GPa	281 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched	6.60 J/cm @Temperature 23.0 Â°C	12.4 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	9.00 kJ/mÂ² @Temperature 23.0 Â°C	4.28 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Impact Test	95.0 J @Temperature 23.0 Â°C	70.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

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)	93.0 Â°C @Thickness 3.20 mm	199 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
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 D 648
Vicat Softening Point	106 Â°C	223 Â°F	Rate B/120; ISO 306
	108 Â°C	226 Â°F	Rate B/50; ASTM D 1525

Optical Properties	Metric	English	Comments
Haze	2.0 % @Thickness 2.54 mm	2.0 % @Thickness 0.100 in	ASTM D 1003
Transmission, Visible	88 % @Thickness 2.54 mm	88 % @Thickness 0.100 in	ASTM D 1003

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China