SABIC Innovative Plastics Xylex X7200 PC+POLYESTER (Asia Pacific)

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

Material Notes:

General purpose, UV stabilised Xylex gradeThis 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-X7200-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	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 265 Â°C	12 g/10 min @Load 4.76 lb, Temperature 509 Â°F	ASTM D 1238
	12 g/10 min @Load 2.16 kg, Temperature 265 Â°C	12 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
Hardness, Shore D	75	75	10S reading; ASTM D 2240
Tensile Strength at Break	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D 638
	56.0 MPa	8120 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Elongation at Break	135 %	135 %	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 %	5 mm/min; ISO 527
Tensile Modulus	1.88 GPa	273 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.96 GPa	284 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched	9.00 J/cm @Temperature 23.0 Â°C	16.9 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature -10.0 Â°C	2.38 ft-lb/inÂ² @Temperature 14.0 Â°F	80*10*4; ISO 180/1A
	8.00 kJ/mÂ² @Temperature 23.0 Â°C	3.81 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	80.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	44.4 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
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	44.4 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
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Hot Ball Pressure Test	<= 105 Â°C	<= 221 Â°F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa	96.0 Â°C	205 Â°F	

Thermal Properties	Metric	English	Comments
(66 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C	210 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	90.0 Â°C @Thickness 3.20 mm	194 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	115 Â°C	239 Â°F	Rate B/50; ASTM D 1525
	115 Â°C	239 Â°F	Rate B/120; ISO 306
Flammability, UL94	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	UL 94
Glow Wire Test	750 Â°C @Thickness 1.00 mm	1380 Â°F @Thickness 0.0394 in	Glow Wire Flammability Index; IEC 60695-2-12

Optical Properties	Metric	English	Comments
Refractive Index	1.557	1.557	ISO 489
Haze	1.1 % @Thickness 2.54 mm	1.1 % @Thickness 0.100 in	ASTM D 1003
Transmission, Visible	88 % @Thickness 2.54 mm	88 % @Thickness 0.100 in	ASTM D 1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D 257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D 257
Comparative Tracking Index	>= 600 V	>= 600 V	PLC code 0; UL 746A

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