

SABIC Innovative Plastics Xylex X7509UV PC+POLYESTER (Europe-Africa-Middle East)

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

Material Notes:

PC+POLYESTER, Transparent, UV-Stabilized, This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-X7509UV-PCPOLYESTER-Europe-Africa-Middle-East.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
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
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
Tensile Strength at Break	62.0 MPa	8990 psi	50 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	133 %	133 %	50 mm/min; ISO 527
	135 %	135 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	5.8 %	5.8 %	50 mm/min; ISO 527
	6.3 %	6.3 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Yield Strength	92.0 MPa	13300 psi	2 mm/min; ISO 178
	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D 790

Elemental Modulus Mechanical Properties	2.25 GPa Metric	325 ksi English	2 mm/min; ISO 178 Comments
	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	7.13 J/cm @Temperature 23.0 °C	13.4 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	9.00 kJ/m ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature -40.0 - 40.0 °C	50.0 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	104 µm/m-°C @Temperature -40.0 - 40.0 °C	57.8 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature -40.0 - 40.0 °C	50.0 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	100 µm/m-°C @Temperature -40.0 - 40.0 °C	55.6 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	223 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	106 °C @Thickness 3.20 mm	223 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	126 °C	259 °F	Rate B/50; ASTM D 1525
	126 °C	259 °F	Rate B/50; ISO 306
	126 °C	259 °F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 2.0 %	<= 2.0 %	ASTM D 1003

Optical Properties	@Thickness 2.54 mm Metric	@Thickness 0.100 in English	Comments
Transmission, Visible	89 %	89 %	ASTM D 1003
	@Thickness 2.54 mm	@Thickness 0.100 in	

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