

SABIC Innovative Plastics Xylex X75290Q 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. Good flow with good impact and excellent optical qualityThis 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-X75290Q-PCPOLYESTER-Asia-Pacific.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	0.14 %	0.14 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.16 % @Temperature 23.0 °C	0.16 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 265 °C	11 g/10 min @Load 4.76 lb, Temperature 509 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	12 g/10 min @Load 2.16 kg, Temperature 265 °C	12 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	50 mm/min; ISO 527
	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D 638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
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	2.14 GPa	310 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric 2.30 GPa	English 334 ksi	Comments 1 mm/min; ISO 527
Flexural Strength	92.0 MPa	13300 psi	2 mm/min; ISO 178
Flexural Yield Strength	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ISO 178
	2.30 GPa	334 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.100 J/cm @Temperature -30.0 °C	0.187 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	5.20 J/cm @Temperature 23.0 °C	9.74 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
Charpy Impact, Notched	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	70.0 J @Temperature 23.0 °C	51.6 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature 23.0 - 60.0 °C	50.0 µin/in-°F @Temperature 73.4 - 140 °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 23.0 - 60.0 °C	50.0 µin/in-°F @Temperature 73.4 - 140 °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
Deflection Temperature at 0.46 MPa	119 °C	246 °F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	223 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	106 °C @Thickness 3.20 mm	223 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	124 °C	255 °F	Rate B/50; ISO 306
	126 °C	259 °F	Rate B/120; ISO 306
	126 °C	259 °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	86 % @Thickness 2.54 mm	86 % @Thickness 0.100 in	ASTM D 1003

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