

## SABIC Innovative Plastics Xylex X7529 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 quality. UV 400nm block. 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-X7529-PCPOLYESTER-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-X7529-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 <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.14 %	0.14 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.16 % @Temperature 23.0 <sup>o</sup> C	0.16 % @Temperature 73.4 <sup>o</sup> 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 <sup>o</sup> C	11 g/10 min @Load 4.76 lb, Temperature 509 <sup>o</sup> F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133
	12 g/10 min @Load 2.16 kg, Temperature 265 <sup>o</sup> C	12 g/10 min @Load 4.76 lb, Temperature 509 <sup>o</sup> 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 Mechanical Properties	2.14 GPa Metric	310 ksi English	50 mm/min; ASTM D 638 Comments
	2.30 GPa	334 ksi	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 <sup>2</sup> @Temperature -30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A
	9.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup> @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 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
	104 Åµm/m-Å°C	57.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	

Thermal Properties	104 Åum/m-Å°C Metric	57.8 Åuin/in-Å°F English	Comments ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	119 Å°C  @Thickness 3.20 mm	246 Å°F  @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	106 Å°C	223 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	106 Å°C  @Thickness 3.20 mm	223 Å°F  @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	124 Å°C	255 Å°F	Rate B/50; ISO 306
	126 Å°C	259 Å°F	Rate B/120; ISO 306
	126 Å°C	259 Å°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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