

SABIC Innovative Plastics Xylex X8419 PC+POLYESTER

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

Material Notes:

Low-medium flow, suitable for blow molding, injection molding, extrusion. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-X8419-PCPOLYESTER.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	0.050 %	0.050 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.12 % @Temperature 23.0 ^o C	0.12 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 265 ^o C	6.0 g/10 min @Load 4.76 lb, Temperature 509 ^o F	ASTM D 1238
	6.0 g/10 min @Load 2.16 kg, Temperature 265 ^o C	6.0 g/10 min @Load 4.76 lb, Temperature 509 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
	110 MPa	16000 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	120 %	120 %	50 mm/min; ISO 527
	130 %	130 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	5.8 %	5.8 %	50 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric Pa	English	Comments ASTM D 638
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.00 GPa	290 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.05 GPa	297 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D 256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	7.50 J/cm	14.1 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched (ISO)	7.00 kJ/mÅ²	3.33 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	11.0 kJ/mÅ²	5.23 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact, Notched	1.80 J/cmÅ²	8.57 ft-lb/inÅ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact Test	68.0 J	50.2 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 Åµm/m-Å°C	38.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	71.0 Åµm/m-Å°C	39.4 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	69.0 Åµm/m-Å°C	38.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ASTM E 831 Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Â°C	208 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	98.0 Â°C @Thickness 3.20 mm	208 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/50; ISO 306
	115 Â°C	239 Â°F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 2.0 % @Thickness 2.54 mm	<= 2.0 % @Thickness 0.100 in	ASTM D 1003
Transmission, Visible	89 % @Thickness 2.54 mm	89 % @Thickness 0.100 in	ASTM D 1003

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