

SABIC Innovative Plastics XYLEX FXY330DF PC+POLYESTER

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

Material Notes:

Polyester+PC alloy. Diffusion Effect. Color package may affect performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-FXY330DF-PCPOLYESTER.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Moisture Absorption	0.270 %	0.270 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.70 %	0.70 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 ^o C	@Load 4.76 lb, Temperature 509 ^o F	
Melt Index of Compound	13 g/10 min	13 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 265 ^o C	@Load 4.76 lb, Temperature 509 ^o F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	Type I, 50 mm/min; ASTM D638
	49.0 MPa	7110 psi	50 mm/min; ISO 527
Elongation at Break	170 %	170 %	Type I, 50 mm/min; ASTM D638
	>= 200 %	>= 200 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	>= 5.0 %	>= 5.0 %	50 mm/min; ISO 527

Tensile Modulus Mechanical Properties	1.44 GPa Metric	209 ksi English	50 mm/min; ASTM D638 Comments
	1.58 GPa	229 ksi	1 mm/min; ISO 527
Flexural Yield Strength	67.0 MPa	9720 psi	1.3 mm/min, 50 mm span; ASTM D790
	77.0 MPa	11200 psi	2 mm/min; ISO 178
Flexural Modulus	1.50 GPa	218 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.60 GPa	232 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.640 J/cm	1.20 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	60.0 J	44.3 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	89.0 Âµm/m-°C	49.4 Âµin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	90.0 Âµm/m-°C	50.0 Âµin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-°C	50.0 Âµin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	94.0 Âµm/m-°C	52.2 Âµin/in-°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	72.0 Â°C	162 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	90.0 Â°C	194 Â°F	Rate B/50; ASTM D1525
	92.0 Â°C	198 Â°F	Rate B/50; ISO 306
	93.0 Â°C	199 Â°F	Rate B/120; ISO 306

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