SABIC Innovative Plastics XYLEX FXY330DF PC+POLYESTER (Asia Pacific)

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-Asia-Pacific.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/in³	ISO 1183
Moisture Absorption	0.270 %	0.270 %	23°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 @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 265 °C	15 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D1238
Melt Index of Compound	13 g/10 min @Load 2.16 kg, Temperature 265 °C	13 g/10 min @Load 4.76 lb, Temperature 509 °F	MVR [cm^3/10 min]; ISO 1133

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 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.44 GPa	209 ksi	50 mm/min; ASTM D638
	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 @Temperature -30.0 °C	1.03 ft-lb/in @Temperature -22.0 °F	ASTM D256
	0.640 J/cm @Temperature 0.000 °C	1.20 ft-lb/in @Temperature 32.0 °F	ASTM D256
Izod Impact, Notched (ISO)	7.00 kJ/m²	3.33 ft-lb/in²	80*10*4; ISO 180/1A
	4.00 kJ/m² @Temperature -30.0 °C	1.90 ft-lb/in² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	60.0 J @Temperature 23.0 °C	44.3 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	89.0 µm/m-°C @Temperature -40.0 - 40.0 °C	49.4 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	90.0 µm/m-°C @Temperature -40.0 - 40.0 °C	50.0 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
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
	94.0 µm/m-°C @Temperature -40.0 - 40.0 °C	52.2 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 1.8 MPa			

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China