

SABIC Innovative Plastics Xylex FXY391DF PC+POLYESTER (Europe-Africa-Middle East)

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

Material Notes:

PC+Polyester alloy in Diffusion Visual fx. This grade is compliant with US FDA/European food contact regulations. Color package may influence performance. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-FXY391DF-PCPOLYESTER-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.010 %	0.010 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.010 % @Temperature 23.0 °C	0.010 % @Temperature 73.4 °F	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
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 265 °C	10 g/10 min @Load 4.76 lb, Temperature 509 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	11 g/10 min @Load 2.16 kg, Temperature 265 °C	11 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	50 mm/min; ISO 527
	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D 638
	61.0 MPa	8850 psi	50 mm/min; ISO 527
Elongation at Break	110 %	110 %	Type I, 50 mm/min; ASTM D 638
	125 %	125 %	50 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D 638
	6.0 %	6.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric Pa	English	Comments, ASTM D 638
	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Strength	89.0 MPa	12900 psi	2 mm/min; ISO 178
Flexural Yield Strength	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.15 GPa	312 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.21 GPa	321 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.810 J/cm	1.52 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.880 J/cm	1.65 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	67.0 J	49.4 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 µm/m-°C	38.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	71.0 µm/m-°C	39.4 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	72.0 µm/m-°C	40.0 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	

Thermal Properties	118 °C Metric	244 °F English	Comments
Stress at 0.46 MPa (66 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	Unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	105 °C	221 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	122 °C	252 °F	Rate B/50; ISO 306
	123 °C	253 °F	Rate B/50; ASTM D 1525
	124 °C	255 °F	Rate B/120; ISO 306

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