

SABIC Innovative Plastics EXTEM XH1005F TPI Resin (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

High Heat Amorphous TPI Blend, Tg 267C, High Continuous Use Temperature (CUT). EFSA Food Contact Approved. Material is UL listed.

This material is RoHS compliant and also halogen free according VDE/DIN 472 part 815. Resin is subject to export control restrictions under both U.S. 15 CFR 774 and Annex I of Reg. (EC) 428/2009 as ECCN 1C008. Diversion contrary to law is prohibited.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-EXTEM-XH1005F-TPI-Resin-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Water Absorption	0.60 % @Time 173000 sec	0.60 % @Time 48.0 hour	ASTM D570
Water Absorption at Saturation	2.3 %	2.3 %	ISO 62
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm @Thickness 3.20 mm	0.010 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 6.60 kg, Temperature 367 °C	6.0 g/10 min @Load 14.6 lb, Temperature 693 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	101 MPa	14600 psi	5 mm/min; ISO 527
	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	5 mm/min; ISO 527
	15 %	15 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.16 GPa	458 ksi	1 mm/min; ISO 527

Mechanical Properties	3.42 GPa Metric	496 ksi English	5 mm/min: ASTM D638 Comments
Flexural Yield Strength	150 MPa	21800 psi	2 mm/min; ISO 178
	168 MPa	24400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.85 GPa	413 ksi	2 mm/min; ISO 178
	3.13 GPa	454 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.10 J/cm ²	9.99 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	20.0 J @Temperature 23.0 °C	14.8 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C @Temperature 23.0 - 150 °C	27.8 µin/in-°F @Temperature 73.4 - 302 °F	ISO 11359-2
CTE, linear, Transverse to Flow	51.0 µm/m-°C @Temperature 23.0 - 150 °C	28.3 µin/in-°F @Temperature 73.4 - 302 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	250 °C @Thickness 3.20 mm	482 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	235 °C @Thickness 3.20 mm	455 °F @Thickness 0.126 in	unannealed; ASTM D648
	237 °C @Thickness 6.40 mm	459 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	252 °C	486 °F	Rate B/50; ISO 306
	252 °C	486 °F	Rate B/120; ISO 306
	260 °C	500 °F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	267 °C	513 °F	

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