

SABIC Innovative Plastics EXTEM UH1016 TPI Blend

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

High heat amorphous TPI Blend, Chemical Resistant, High Flow

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-EXTEM-UH1016-TPI-Blend.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 6.60 kg, Temperature 400 °C	@Load 14.6 lb, Temperature 752 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	5 mm/min; ISO 527
	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	112 MPa	16200 psi	5 mm/min; ISO 527
	120 MPa	17400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	10 %	10 %	Type I, 5 mm/min; ASTM D638
	17 %	17 %	5 mm/min; ISO 527
Elongation at Yield	9.0 %	9.0 %	Type I, 5 mm/min; ASTM D638
	9.0 %	9.0 %	5 mm/min; ISO 527
Tensile Modulus	3.50 GPa	508 ksi	1 mm/min; ISO 527
	3.80 GPa	551 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	155 MPa	22500 psi	2 mm/min; ISO 178
	175 MPa	25400 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	3.00 GPa Metric	435 ksi English	2 mm/min* ISO 178 Comments
	3.52 GPa	511 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 µm/m-°C	25.6 µin/in-°F	ASTM E 831
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	
CTE, linear, Transverse to Flow	47.0 µm/m-°C	26.1 µin/in-°F	ASTM E 831
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	
Deflection Temperature at 0.46 MPa (66 psi)	263 °C	505 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	231 °C	448 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	240 °C	464 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	257 °C	495 °F	Rate B/50; ASTM D1525
	261 °C	502 °F	Rate B/50; ISO 306
	263 °C	505 °F	Rate B/120; ISO 306

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