

SABIC Innovative Plastics LNP Thermocomp EF008E PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Thermocomp* EF008E is a compound based on Polyetherimide resin containing Glass Fiber. Added features of this material include:
Easy Molding. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-EF008E-PEI.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
	1.60 g/cc	0.0578 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	ASTM D 638
	196 MPa	28400 psi	ISO 527
Tensile Strength, Yield	172 MPa	24900 psi	ASTM D 638
	175 MPa	25400 psi	ISO 527
Elongation at Break	2.1 %	2.1 %	ASTM D 638
	4.7 %	4.7 %	ISO 527
Elongation at Yield	5.7 %	5.7 %	ISO 527
	7.5 %	7.5 %	ASTM D 638
Tensile Modulus	10.17 GPa	1475 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	15.14 GPa	2186 ksi	50 mm/min; ASTM D 638
Flexural Strength	248 MPa	36000 psi	ASTM D 790
Flexural Modulus	11.72 GPa	1700 ksi	ASTM D 790
	15.0 GPa	2180 ksi	ISO 178
Izod Impact, Notched	0.880 J/cm @Temperature 23.0 Â°C	1.65 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	6.92 J/cm @Temperature 23.0 Â°C	13.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/mÂ² @Temperature 23.0 Â°C	20.0 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	209 Â°C	408 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	211 Â°C @Thickness 3.20 mm	412 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	206 Â°C	403 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	206 Â°C @Thickness 3.20 mm	403 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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