

SABIC Innovative Plastics LNP THERMOCOMP JF003E PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* THERMOCOMP* JF003E is a compound based on Polyethersulfone resin containing 15% Glass Fiber. Added features of this material include: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF003E-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Moisture Absorption	0.450 %	0.450 %	50% RH, 24 hrs; ASTM D570
	0.900 %	0.900 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	101 MPa	14600 psi	5 mm/min; ISO 527
	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.66 GPa	821 ksi	5 mm/min; ASTM D638
	5.66 GPa	821 ksi	1 mm/min; ISO 527
Flexural Strength	174 MPa	25200 psi	1.3 mm/min, 50 mm span; ASTM D790
	174 MPa	25200 psi	ISO 178
Flexural Modulus	5.33 GPa	773 ksi	2 mm/min; ISO 178
	5.68 GPa	824 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	5.34 J/cm Metric	10.0 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	23.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	47.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	424 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	218 Â°C @Thickness 3.20 mm	424 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	211 Â°C	412 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	212 Â°C @Thickness 3.20 mm	414 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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