

SABIC Innovative Plastics LNP THERMOCOMP JF003XXZ PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* THERMOCOMP* JF003XXZ is a compound based on Polyethersulfone resin containing 15% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF003XXZ-PES.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
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	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0067 cm/cm	0.0067 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	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	109 MPa	15800 psi	ASTM D638
	110 MPa	16000 psi	ISO 527
Tensile Strength, Yield	109 MPa	15800 psi	ASTM D638
	110 MPa	16000 psi	ISO 527
Elongation at Break	3.1 %	3.1 %	ISO 527
	3.2 %	3.2 %	ASTM D638
Elongation at Yield	3.1 %	3.1 %	ISO 527
	3.2 %	3.2 %	ASTM D638
Tensile Modulus	6.20 GPa	899 ksi	50 mm/min; ASTM D638
	6.41 GPa	930 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	176 MPa	25500 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
	5.51 GPa	799 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.67 J/cm	12.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	47.0 kJ/mÂ²	22.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	5.40 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	3.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	55.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	31.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	3.60 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	2.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	28.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	214 Â°C	417 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	212 Â°C @Thickness 3.20 mm	414 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	207 Â°C	405 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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