

SABIC Innovative Plastics LNP THERMOCOMP JF004 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP THERMOCOMP* JF004 is a compound based on Polyethersulfone resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF004-PES.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.740 %	0.740 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294
	@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	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	109 MPa	15800 psi	ISO 527
	114 MPa	16500 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
	2.9 %	2.9 %	ISO 527
Tensile Modulus	7.35 GPa	1070 ksi	50 mm/min; ASTM D638
	7.59 GPa	1100 ksi	
Flexural Strength	182 MPa	26400 psi	ISO 178
	186 MPa	27000 psi	ASTM D790
Flexural Modulus	6.41 GPa	930 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.13 J/cm	7.74 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	73.0 kJ/m ²	34.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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