

SABIC Innovative Plastics LNP THERMOCOMP JF004 PES (Asia Pacific)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF004-PES-Asia-Pacific.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 [°] 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	^{6.68 GPa} Metric	^{870 lbf} English	ASTM D700 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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