

SABIC Innovative Plastics LNP THERMOCOMP JF004EXP PES (Asia Pacific)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* Thermocomp* JF004EXP is a compound based on Polyethersulfone resin containing 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-JF004EXP-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
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	2.9 %	2.9 %	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	1 mm/min; ISO 527
Flexural Strength	183 MPa	26500 psi	ISO 178
	186 MPa	27000 psi	ASTM D790
Flexural Modulus	6.69 GPa	970 ksi	ASTM D790

Mechanical Properties	7.59 GPa Metric	1100 ksi English	ISO 178 Comments
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	73.0 kJ/mÂ²	34.7 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 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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