SABIC Innovative Plastics LNP Thermocomp JF003L PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* Thermocomp* JF003L is a compound based on Polyethersulfone (PES) containing Glass Fiber. Characteristics of this grade are Low Extractable.This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-JF003L-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D 792
Density	1.48 g/cc	0.0535 lb/inÂ³	ASTM D 792
Moisture Absorption at Equilibrium	0.66 %	0.66 %	23Â°C / 50% RH; ISO 62
	0.43 % @Time 86400 sec	0.43 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.0 MPa	13900 psi	5 mm/min; ISO 527
	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	5.89 GPa	854 ksi	1 mm/min; ISO 527
	5.98 GPa	867 ksi	50 mm/min; ASTM D 638
Flexural Strength	155 MPa	22500 psi	ISO 178
	157 MPa	22800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	157 MPa	22800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	5.56 GPa	806 ksi	2 mm/min; ISO 178
	5.65 GPa	819 ksi	1.3 mm/min, 50 mm span; ASTM D

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.410 J/cm @Temperature 23.0 Â°C	0.768 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.18 J/cm @Temperature 23.0 Â°C	9.70 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 Â°C @Thickness 3.20 mm	430 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	216 Â°C @Thickness 3.20 mm	421 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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