

SABIC Innovative Plastics LNP THERMOCOMP JF004L PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* THERMOCOMP* JF004L is a compound is based on Polyethersulfone containing 20% Glass Fiber. Characteristics of this grade is:

Low Extractible

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF004L-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D792
Moisture Absorption	0.370 %	0.370 %	50% RH, 24 hrs; ASTM D570
	0.550 %	0.550 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Time 86400 sec	0.0030 - 0.0060 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.0 MPa	13500 psi	5 mm/min; ISO 527
	98.0 MPa	14200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	94.0 MPa	13600 psi	5 mm/min; ISO 527
	98.0 MPa	14200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.1 %	2.1 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.36 GPa	922 ksi	50 mm/min; ASTM D638
	6.64 GPa	963 ksi	1 mm/min; ISO 527
Flexural Strength	148 MPa	21500 psi	2 mm/min; ISO 178
	149 MPa	21600 psi	ISO 178

Mechanical Properties	Metric	English	Comments
	MPa	psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	152 MPa	22000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.30 GPa	914 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.30 GPa	914 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.63 J/cm	10.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 °C	8.11 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	421 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	216 °C @Thickness 3.20 mm	421 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	211 °C @Thickness 3.20 mm	412 °F @Thickness 0.126 in	unannealed; ASTM D648

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