

SABIC Innovative Plastics LNP THERMOCOMP JF004LZ PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* Thermocomp* JF004LZ is a compound based on PES containing 20% Glass Fiber. Added features include: Extrusion Grade, Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF004LZ-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Moisture Absorption	0.340 %	0.340 %	50% RH, 24 hrs; ASTM D570
	0.760 %	0.760 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	5 mm/min; ISO 527
	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	6.83 GPa	991 ksi	1 mm/min; ISO 527
	7.28 GPa	1060 ksi	5 mm/min; ASTM D638
Flexural Strength	156 MPa	22600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.13 GPa	889 ksi	2 mm/min; ISO 178
	6.46 GPa	937 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.05 J/cm	9.46 ft-lb/in	ASTM D4812

Izod Impact, Notched (ISO) Mechanical Properties	5.00 kJ/mÂ² Metric	2.38 ft-lb/inÂ² English	80*10*4; ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ²	13.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	40.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	224 Â°C	435 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	223 Â°C @Thickness 3.20 mm	433 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	218 Â°C @Thickness 3.20 mm	424 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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