

SABIC Innovative Plastics LNP THERMOCOMP LF002 PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP* THERMOCOMP* LF002 is a compound based on Polyetheretherketone resin containing 10% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LF002-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
	122 MPa	17700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	120 MPa	17400 psi	Type I, 5 mm/min; ASTM D638
	125 MPa	18100 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527
	4.2 %	4.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	5 mm/min; ISO 527
Tensile Modulus	6.08 GPa	882 ksi	5 mm/min; ASTM D638
	6.49 GPa	941 ksi	1 mm/min; ISO 527
Flexural Yield Strength	203 MPa	29400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.66 GPa	821 ksi	2 mm/min; ISO 178

Mechanical Properties	6.01 GPa Metric	872 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.60 J/cm	16.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	49.0 kJ/m ²	23.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	19.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	43.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	24.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	285 Â°C	545 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	326 Â°C @Thickness 3.20 mm	619 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	171 Â°C	340 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	169 Â°C @Thickness 3.20 mm	336 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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