

SABIC Innovative Plastics LNP Thermocomp LF004 PEEK

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

Material Notes:

LNP THERMOCOMP* LF004 is a compound based on Polyetheretherketone resin containing Glass Fiber. 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-LF004-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D 792
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D 792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.19 %	0.19 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	151 MPa	21900 psi	Type I, 5 mm/min; ASTM D 638
	152 MPa	22000 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
	5.4 %	5.4 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	14.19 GPa	2058 ksi	50 mm/min; ASTM D 638
Flexural Strength	223 MPa	32300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	8.31 GPa	1210 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	9.64 GPa	1400 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	8.72 J/cm Metric	16.3 ft-lb/in English	Comments ASTM D 4812
Izod Impact, Unnotched	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/m ² @Temperature 23.0 °C	25.7 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	242 °C	468 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	280 °C @Thickness 3.20 mm	536 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	278 °C @Thickness 3.20 mm	532 °F @Thickness 0.126 in	unannealed; ASTM D 648

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