

SABIC Innovative Plastics LNP Thermocomp LF003E PEEK (Asia Pacific)

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

Material Notes:

LNP* Thermocomp* LF003E is a compound based on Polyetheretherketone resin containing Glass Fiber. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-LF003E-PEEK-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
	1.39 g/cc	0.0502 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.0079 cm/cm	0.0079 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ISO 527
	136 MPa	19700 psi	ASTM D 638
Tensile Strength, Yield	125 MPa	18100 psi	ISO 527
	136 MPa	19700 psi	ASTM D 638
Elongation at Break	2.4 %	2.4 %	ISO 527
	3.1 %	3.1 %	ASTM D 638
Elongation at Yield	2.4 %	2.4 %	ISO 527
	3.0 %	3.0 %	ASTM D 638
Tensile Modulus	6.93 GPa	1010 ksi	1 mm/min; ISO 527
Flexural Strength	199 MPa	28900 psi	ASTM D 790

Mechanical Properties	209 MPa Metric	30300 psi English	ISO 178 Comments
Flexural Modulus	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	8.54 J/cm @Temperature 23.0 Â°C	16.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/mÂ² @Temperature 23.0 Â°C	25.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	26.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	48.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	27.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	30.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	17.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	31.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	17.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	325 Â°C	617 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	328 Â°C @Thickness 3.20 mm	622 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	244 Å°C Metric	471 Å°F English	Flatw 80*10*4 sp=64mm; ISO 75/At Comments
	258 Å°C @Thickness 3.20 mm	496 Å°F @Thickness 0.126 in	unannealed; ASTM D 648

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