

SABIC Innovative Plastics LNP Thermocomp LFZ42XXC PEEK

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

Material Notes:

LNP THERMOCOMP* LFZ42XXC is a compound based on Polyetheretherketone resin containing Glass Fiber, Milled Glass. Added features of this material include: Low Warpage. 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-LFZ42XXC-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
	1.53 g/cc	0.0553 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.080 %	0.080 %	23Â°C / 50% RH; ISO 62
	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	5 mm/min; ISO 527
	111 MPa	16100 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	111 MPa	16100 psi	5 mm/min; ISO 527
	112 MPa	16200 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	2.8 %	2.8 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	7.11 GPa	1030 ksi	50 mm/min; ASTM D 638
	7.72 GPa	1120 ksi	1 mm/min; ISO 527
Flexural Strength	178 MPa	25800 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	11.3 MPa	20500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	6.85 GPa	994 ksi	2 mm/min; ISO 178
	7.22 GPa	1050 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.550 J/cm @Temperature 23.0 Å°C	1.03 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256
Izod Impact, Unnotched	7.05 J/cm @Temperature 23.0 Å°C	13.2 ft-lb/in @Temperature 73.4 Å°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÅ² @Temperature 23.0 Å°C	2.38 ft-lb/inÅ² @Temperature 73.4 Å°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/mÅ² @Temperature 23.0 Å°C	19.0 ft-lb/inÅ² @Temperature 73.4 Å°F	80*10*4; ISO 180/1U
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Å°C	5.90 ft-lb @Temperature 73.4 Å°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	17.0 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D 696
CTE, linear, Transverse to Flow	36.5 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	20.3 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	315 Å°C	599 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	198 Å°C	388 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	156 Å°C @Thickness 3.20 mm	313 Å°F @Thickness 0.126 in	unannealed; ASTM D 648

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