

SABIC Innovative Plastics LNP Thermocomp EB004 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Thermocomp* EB004 is a compound based on Polyetherimide resin containing Glass Bead. 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-EB004-PEI.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D 792
	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0058 cm/cm	0.0058 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0071 cm/cm	0.0071 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	ASTM D 638
	97.0 MPa	14100 psi	ISO 527
Elongation at Break	8.8 %	8.8 %	ASTM D 638
	9.6 %	9.6 %	ISO 527
Tensile Modulus	4.82 GPa	699 ksi	1 mm/min; ISO 527
	7.58 GPa	1100 ksi	50 mm/min; ASTM D 638
Flexural Strength	130 MPa	18900 psi	ISO 178
	158 MPa	22900 psi	ASTM D 790
Flexural Modulus	4.10 GPa	595 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
	4.82 GPa	699 ksi	ASTM D 790
Izod Impact, Notched	0.370 J/cm @Temperature 23.0 Â°C	0.693 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.11 J/cm @Temperature 23.0 Â°C	7.70 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/mÂ² @Temperature 23.0 Â°C	11.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	44.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	24.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	43.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	23.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	43.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	24.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	204 Â°C	399 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	198 Â°C @Thickness 3.20 mm	388 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C	374 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	183 Â°C @Thickness 3.20 mm	361 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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