

SABIC Innovative Plastics LNP Thermocomp ZF008 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LNP* Thermocomp* ZF008 is a compound based on Modified PPO 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-ZF008-PPO.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D 792
	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23 ^o C / 50% RH; ISO 62
	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.0 MPa	14100 psi	Type I, 5 mm/min; ASTM D 638
	98.0 MPa	14200 psi	5 mm/min; ISO 527
Elongation at Break	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
	1.5 %	1.5 %	5 mm/min; ISO 527
Tensile Modulus	9.70 GPa	1410 ksi	1 mm/min; ISO 527
	10.46 GPa	1517 ksi	50 mm/min; ASTM D 638
Flexural Strength	144 MPa	20900 psi	ISO 178
	149 MPa	21600 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	9.55 GPa	1390 ksi	2 mm/min; ISO 178
	9.91 GPa	1440 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	0.960 J/cm	1.80 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	4.28 J/cm @Temperature 23.0 °C	8.02 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m ² @Temperature 23.0 °C	12.4 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	11.0 J @Temperature 23.0 °C	8.11 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C @Temperature -30.0 - 30.0 °C	23.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
CTE, linear, Transverse to Flow	46.0 µm/m-°C @Temperature -30.0 - 30.0 °C	25.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 °C @Thickness 3.20 mm	280 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	133 °C	271 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 °C @Thickness 3.20 mm	270 °F @Thickness 0.126 in	unannealed; ASTM D 648

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