

SABIC Innovative Plastics LNP THERMOCOMP ZF004 PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

LNP THERMOCOMP* ZF004 is a compound based on PPE+PS resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZF004-PPEPS.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.0900 %	0.0900 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	79.0 MPa	11500 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.8 %	1.8 %	5 mm/min; ISO 527
Tensile Modulus	6.50 GPa	943 ksi	1 mm/min; ISO 527
	6.57 GPa	953 ksi	50 mm/min; ASTM D638
Flexural Strength	118 MPa	17100 psi	1.3 mm/min, 50 mm span; ASTM D790
	121 MPa	17500 psi	ISO 178
Flexural Modulus	6.27 GPa	909 ksi	2 mm/min; ISO 178
	6.41 GPa	930 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.90 J/cm	7.31 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	31.0 kJ/m ²	14.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	53.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	137 Â°C	279 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 Â°C	268 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	131 Â°C @Thickness 3.20 mm	268 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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