

SABIC Innovative Plastics LNP THERMOCOMP ZFM62P PPE+PS

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

Material Notes:

LNP* THERMOCOMP* ZFM62P is a compound based on PPE+PS resin containing 10% Glass Fiber, 30% Mical. Added features of this material include: Exceptional Processing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZFM62P-PPEPS.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	66.0 MPa	9570 psi	ISO 527
	75.0 MPa	10900 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.4 %	1.4 %	ASTM D638
Tensile Modulus	8.54 GPa	1240 ksi	1 mm/min; ISO 527
	8.97 GPa	1300 ksi	50 mm/min; ASTM D638
Flexural Strength	120 MPa	17400 psi	ISO 178
	124 MPa	18000 psi	ASTM D790

Flexural Modulus Mechanical Properties	8.69 GPa Metric	1260 ksi English	ISO 178 Comments
	8.74 GPa	1270 ksi	ASTM D790
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.92 J/cm	3.60 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.4 Åµm/m-Å°C	20.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	37.4 Åµm/m-Å°C	20.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	35.2 Åµm/m-Å°C	19.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	35.3 Åµm/m-Å°C	19.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	139 Å°C	282 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 Å°C	279 Å°F	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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