

SABIC Innovative Plastics LNP THERMOCOMP ZF0049 PPE+PS

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

Material Notes:

LNP* THERMOCOMP* ZF0049 is a compound based on PPE+PS resin containing 20% Glass Fiber. Added feature of this material is: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZF0049-PPEPS.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0028 cm/cm	0.0028 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0049 cm/cm	0.0049 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	84.0 MPa	12200 psi	ISO 527
	88.0 MPa	12800 psi	ASTM D638
Tensile Strength, Yield	84.0 MPa	12200 psi	ISO 527
	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Elongation at Yield	1.6 %	1.6 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Tensile Modulus	6.83 GPa	991 ksi	1 mm/min; ISO 527
	6.89 GPa	999 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	118 MPa Metric	17100 psi English	ISO 178 Comments
	241 MPa	35000 psi	ASTM D790
Flexural Modulus	6.60 GPa	957 ksi	ISO 178
	12.41 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.16 J/cm	7.79 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/mÂ²	11.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	32.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	58.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	32.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	39.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	39.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	22.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	111 Â°C	232 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	110 Â°C @Thickness 3.20 mm	230 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C	219 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	102 Â°C @Thickness 3.20 mm	216 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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