

SABIC Innovative Plastics LNP Thermocomp ZZ006 PPE+PS

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

Material Notes:

LNP THERMOCOMP* ZZ006 is a compound based on PPE+PS Blend resin containing Milled Glass. 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-ZZ006-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D 792
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D 792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	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	0.0040 - 0.0070 cm/cm @Time 86400 sec	0.0040 - 0.0070 in/in @Time 24.0 hour	ASTM D 955
	0.0040 - 0.0070 cm/cm @Time 86400 sec	0.0040 - 0.0070 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D 638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Elongation at Break	4.4 %	4.4 %	Type I, 5 mm/min; ASTM D 638
	4.6 %	4.6 %	5 mm/min; ISO 527
Elongation at Yield	3.7 %	3.7 %	5 mm/min; ISO 527
Tensile Modulus	4.90 GPa	711 ksi	1 mm/min; ISO 527
	5.19 GPa	753 ksi	50 mm/min; ASTM D 638
Flexural Strength	109 MPa	15800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	4.53 GPa	657 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	4.71 GPa	683 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.430 J/cm @Temperature 23.0 Â°C	0.845 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.96 J/cm @Temperature 23.0 Â°C	7.42 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/mÂ² @Temperature 23.0 Â°C	10.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	30.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	55.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	30.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	133 Â°C	271 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	132 Â°C @Thickness 3.20 mm	270 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	123 Â°C @Thickness 3.20 mm	253 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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