

SABIC Innovative Plastics LNP Thermocomp WF006SXC PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP* Thermocomp* WF006SXC is a compound based on PBT containing Glass Fiber. Characteristic of this grade is: Heat Stabilized. 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-WF006SXC-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D 792
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.040 % @Time 86400 sec	0.040 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.0 MPa	12800 psi	5 mm/min; ISO 527
	92.0 MPa	13300 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	8.50 GPa	1230 ksi	1 mm/min; ISO 527
	8.83 GPa	1280 ksi	5 mm/min; ASTM D 638
Flexural Strength	130 MPa	18900 psi	ISO 178
	136 MPa	19700 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	137 MPa	19900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	7.82 GPa	1130 ksi	2 mm/min; ISO 178
	8.04 GPa	1170 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.370 J/cm @Temperature 23.0 Â°C	0.682 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.56 J/cm @Temperature 23.0 Â°C	6.67 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/mÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	221 Â°C @Thickness 3.20 mm	430 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C @Thickness 3.20 mm	399 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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