

SABIC Innovative Plastics LNP THERMOTUF W1000I PBT (Europe-Africa-Middle East)

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

Material Notes:

LNP* THERMOTUF* W1000I is a compound based on Polybutylene Terephthalate resin. Added features include: High Impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-W1000I-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.020 - 0.024 cm/cm	0.020 - 0.024 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	36.0 MPa	5220 psi	5 mm/min; ISO 527
Tensile Modulus	1.50 GPa	218 ksi	1 mm/min; ISO 527
Flexural Yield Strength	46.0 MPa	6670 psi	2 mm/min; ISO 178
Flexural Modulus	1.60 GPa	232 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C @Temperature 23.0 - 60.0 °C	77.8 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	132 µm/m-°C @Temperature 23.0 - 60.0 °C	73.3 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257

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