

SABIC Innovative Plastics LNP THERMOTUF WF003I PBT (Europe-Africa-Middle East)

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

Material Notes:

LNP* Thermotuf* WF003I BLACK is a compound based on Polybutylene Terephthalate resin containing Glass Fiber. Added features of this material include: High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-WF003I-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	5 mm/min; ISO 527
Elongation at Yield	3.3 %	3.3 %	5 mm/min; ISO 527
Tensile Modulus	4.70 GPa	682 ksi	1 mm/min; ISO 527
Flexural Strength	111 MPa	16100 psi	2 mm/min; ISO 178
Flexural Yield Strength	123 MPa	17800 psi	2 mm/min; ISO 178
Flexural Modulus	4.10 GPa	595 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 μm/m-°C	25.0 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	133 μm/m-°C	73.9 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	173 °C	343 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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