

LNP™ THERMOTUF™ WF003I compound

Thermoplastic Polyester

SABIC Innovative Plastics

Message:

LNP THERMOTUF* WF003I is a compound based on PBT resin containing 15% Glass Fiber. Added features of this material include: High Impact.

Also known as: LNP* THERMOTUF* Compound WF003I

Product reorder name: WF003I

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Impact resistance, high		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.11	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4920	MPa	ISO 527-2/1
Tensile Stress (Break)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.3	%	ISO 527-2/5
Flexural Modulus ¹	4350	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	133	MPa	ISO 178
-- ⁴	119	MPa	ISO 178
Flexural Strain at Break ⁵	5.7	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶ (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, unannealed, 64.0mm span	209	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	180	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	4.1E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.4E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 - 232	°C	

Middle Temperature	243 - 254	°C
Front Temperature	260 - 271	°C
Processing (Melt) Temp	238 - 266	°C
Mold Temperature	82.2 - 98.9	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

1.	2.0 mm/min
2.	2.0 mm/min
3.	Yield
4.	Break
5.	2 mm/min
6.	80*10*4
7.	80*10*4
8.	80*10*4 mm

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