

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 WF-1003 HI
Product reorder name: WF003I

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	1.0	%	ASTM D955
Across Flow : 24 hr	0.95	%	ISO 294-4
Flow : 24 hr	0.75	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.090	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5010	MPa	ISO 527-2/1
Tensile Stress			
Yield	78.0	MPa	ISO 527-2
Break	79.8	MPa	ASTM D638
Break	76.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	3.0	%	
Break	4.0	%	
Flexural Modulus			
--	4590	MPa	ASTM D790
--	4710	MPa	ISO 178
Flexural Strength			
--	135	MPa	ASTM D790
--	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ¹	14	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	720	J/m	ASTM D4812
23°C ²	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.2	J	ASTM D3763
--	4.22	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	201	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4		

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Recommended distributors for this material

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