

LNP™ THERMOTUF™ WF006I compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOTUF* WF006I is a compound based on PBT containing 30% Glass Fiber. Added features of this material include: High Impact.

Also known as: LNP* THERMOTUF* Compound WF-1006 HI

Product reorder name: WF006I

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.30	%	ASTM D955
Across Flow : 24 hr	1.3	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.29	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8960	MPa	ASTM D638
--	6520	MPa	ISO 527-2/1
Tensile Strength			
Yield	107	MPa	ASTM D638
Yield	109	MPa	ISO 527-2
Break	106	MPa	ASTM D638
Tensile Elongation			
Yield	3.2	%	ASTM D638
Yield	2.1	%	ISO 527-2
Break	4.0	%	ASTM D638
Break	2.8	%	ISO 527-2
Flexural Modulus			
--	7520	MPa	ASTM D790
--	8620	MPa	ISO 178
Flexural Strength			
--	174	MPa	ASTM D790
--	181	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	190	J/m	ASTM D256
23°C ²	20	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ³	64	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)			
	17.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	210	°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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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Recommended distributors for this material

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