

LNP™ THERMOTUF™ OF006I compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOTUF* OF006I is a compound based on PPS - Linear resin containing Glass Fiber. Added features of this material include: High Impact.
Also known as: LNP* THERMOTUF* Compound OF-1006 HI
Product reorder name: OF006I

General Information			
UL YellowCard	E121562-101284447		
Filler / Reinforcement	Glass Fiber		
Features	High Impact Resistance		
	Linear Polymer Structure		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.49	g/cm ³	ASTM D792
--	1.48	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.67	%	ISO 294-4
Flow : 24 hr	0.23	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.040	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10800	MPa	ASTM D638
--	9820	MPa	ISO 527-2/1
Tensile Strength			
Break	143	MPa	ASTM D638
Break	139	MPa	ISO 527-2
Tensile Elongation			
Break	2.4	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	9790	MPa	ASTM D790
--	10100	MPa	ISO 178
Flexural Strength			
--	208	MPa	ASTM D790
--	212	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C ²	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	780	J/m	ASTM D4812
23°C ³	51	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.4	J	ASTM D3763
--	4.89	J	ISO 6603-2
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°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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