

LNP™ THERMOTUF™ VF008 compound

Polyamide

SABIC Innovative Plastics

Message:

LNP THERMOTUF VF008 is a compound based on Super Tough Nylon resin containing 40% Glass Fiber. Added feature of this material is: High Impact.

Also known as: LNP* THERMOTUF* Compound VF-1008

Product reorder name: VF008

General Information			
UL YellowCard	E121562-101283829		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	High Impact Resistance		
	Ultra High Toughness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.38	g/cm ³	
--	1.40	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.45	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.66	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9900	MPa	ISO 527-2/1
Tensile Strength			
Break ¹	126	MPa	ASTM D638
Break	127	MPa	ISO 527-2/5
Tensile Elongation			
Break ²	3.3	%	ASTM D638
Break	3.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ³	8600	MPa	ASTM D790
-- ⁴	8540	MPa	ISO 178
Flexural Strength ⁵ (Break, 50.0 mm Span)	194	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C ⁶	17	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ⁷	58	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.80	J	ASTM D3763
--	5.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	258	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	255	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	245	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	238	°C	ISO 75-2/Af
CLTE - Flow (-40 to 40°C)	3.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.38	W/m/K	ASTM E1530
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	260 to 271	°C	
Middle Temperature	277 to 288	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 293	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	Type I, 5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	1.3 mm/min		
4.	2.0 mm/min		
5.	1.3 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		
9.	80*10*4 mm		

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