

LNP™ THERMOTUF™ VF1001S compound

Polyamide

SABIC Innovative Plastics

Message:

LNP THERMOTUF VF1001S is a compound based on Super Tough Nylon resin containing 5% Glass Fiber. Added features of this material include: Heat Stabilized, High Impact.

Also known as: LNP* THERMOTUF* Compound VF-1001 HS

Product reorder name: VF1001S

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Impact Resistance		
	Ultra High Toughness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.68	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3390	MPa	ASTM D638
--	3300	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	61.8	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2/5
Break ³	56.4	MPa	ASTM D638
Break	56.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.4	%	ASTM D638
Yield	3.5	%	ISO 527-2/5
Break ⁵	9.4	%	ASTM D638
Break	7.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2940	MPa	ASTM D790

-- ⁷	2760	MPa	ISO 178
Flexural Stress	86.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ⁸	9.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	720	J/m	ASTM D4812
23°C ⁹	42	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.90	J	ASTM D3763
--	11.9	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	249	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	242	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	198	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	154	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.8E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	260 to 271	°C	
Middle Temperature	271 to 282	°C	
Front Temperature	288 to 299	°C	
Processing (Melt) Temp	271 to 293	°C	
Mold Temperature	48.9 to 93.3	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	10 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	80*10*4		
9.	80*10*4		

10.	80*10*4 mm
11.	80*10*4 mm

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