

LNP™ THERMOTUF™ V1000 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP THERMOTUF* V1000 is a compound based on unfilled Super Tough Nylon resin. Added feature of this material is: High Impact.
Also known as: LNP* THERMOTUF* Compound V-1000
Product reorder name: V1000

General Information			
UL YellowCard	E121562-101282752		
Features	High Impact Resistance		
	Ultra High Toughness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage	ASTM D955, ISO 294-4		
Flow : 24 hr	1.3 to 1.5	%	
Across Flow : 24 hr	1.3 to 1.5	%	
Water Absorption			
24 hr, 50% RH	0.80	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1930	MPa	ASTM D638
--	1800	MPa	ISO 527-2/1
Tensile Strength			
Yield	45.1	MPa	ASTM D638
Yield	44.0	MPa	ISO 527-2
Break	50.6	MPa	ASTM D638
Break	50.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.6	%	ASTM D638
Yield	17	%	ISO 527-2
Break	60	%	ASTM D638
Break	170	%	ISO 527-2
Flexural Modulus			
--	1930	MPa	ASTM D790
--	1700	MPa	ISO 178
Flexural Strength			
--	74.7	MPa	ASTM D790

--	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	84	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	140	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	56.9	J	ASTM D3763
--	77.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	53.3	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	56.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.3E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.3E-4	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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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