

LNP™ THERMOTUF™ V1000SU compound

Polyamide

SABIC Innovative Plastics

Message:

LNP THERMOTUF V1000SU is a compound based on unfilled Super Touch Nylon resin. Added features of this material include: Heat Stabilized, UV Stabilized.

Also known as: LNP* THERMOTUF* Compound V-1000 HS UV

Product reorder name: V1000SU

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good UV Resistance		
	Heat Stabilized		
	Ultra High Toughness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
	1.07		
--	1.08	g/cm ³	ASTM D792
--	1.08	g/cm ³	ISO 1183
--	1.07	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	2.1 to 2.3	%	ASTM D955
Across Flow : 24 hr	2.5 to 2.7	%	ASTM D955
Across Flow : 24 hr	2.6	%	ISO 294-4
Flow : 24 hr	2.2	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.60	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1710	MPa	ASTM D638
--	1650	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2/5

Break ³	39.0	MPa	ASTM D638
Break	41.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	57	%	ASTM D638
Yield	150	%	ISO 527-2/5
Break ⁵	85	%	ASTM D638
Break	170	%	ISO 527-2/5
Flexural Modulus			
--	2070	MPa	ASTM D790
--	1700	MPa	ISO 178
Flexural Strength			
--	55.2	MPa	ASTM D790
--	53.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	200	J/m	ASTM D256
23°C ⁶	27	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	49.8	J	ASTM D3763
--	49.4	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	192	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁷	150	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	193	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	147	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.4E-4	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	1.3E-4	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	1.3E-4	cm/cm/°C	ASTM E831, ISO 11359-2
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.	5.0 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.	80*10*4
7.	80*10*4 mm
8.	80*10*4 mm

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