

LNP™ THERMOTUF™ V1000SU compound

Polyamide
SABIC Innovative Plastics

Message:

LNP THERMOTUF V1000SU is a compound based on 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	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.1 - 2.3	%	ASTM D955
Transverse flow: 24 hours	2.5 - 2.7	%	ASTM D955
Vertical flow direction: 24 hours	2.6	%	ISO 294-4
Flow direction: 24 hours	2.2	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
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 ¹	27	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	192	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ²	150	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	193	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	147	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -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 - 0.25	%	
Rear Temperature	260 - 271	°C	
Middle Temperature	271 - 282	°C	
Front Temperature	288 - 299	°C	
Processing (Melt) Temp	271 - 293	°C	
Mold Temperature	48.9 - 93.3	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	10 - 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4 mm		
3.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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