

LNP* Thermotuf* V1000

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP THERMOTUF* V1000 is a compound based on Nylon resin. Added features of this material include: High Impact.

Also known as: LNP* Thermotuf* Compound V-1000

Product reorder name: V1000

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E121562-101282752 • E45195-236062
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Thermotuf*
Availability	• North America
Features	• High Impact Resistance
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		ASTM D570 ISO 62
24 hr, 50% RH	0.80 %	
Equilibrium, 23°C, 50% RH	1.4 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	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 ⁵ (23°C)	84 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (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

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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 ⁶	56.0 °C	ISO 75-2/Af
CLTE		ASTM E831
Flow: -40 to 40°C	0.00013 cm/cm/°C	ISO 11359-2
Transverse: -40 to 40°C	0.00013 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	60 to 100 rpm	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 50 mm/min

⁵ 80*10*4

⁶ 80*10*4 mm

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Where to Buy

Supplier

SABIC Innovative Plastics

Pittsfield, MA USA

Telephone: 800-845-0600

Web: <http://www.sabic-ip.com/>

Distributor

Nexeo Solutions

Telephone: 800-531-7106

Web: <http://www.nexeosolutions.com/>

Availability: North America



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– Birgit Elvardt Bader, Production Manager, Micotron

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– Kevin Chase, Owner & President, Chase Plastics



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