

LNP* Thermotuf* VFK33S

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP THERMOTUF* VFK33S is a compound based on Nylon resin containing Glass Fiber, Mineral. Added features of this material include: Heat Stabilized.

Also known as: LNP* Thermotuf* Compound VFM-3633 HS

Product reorder name: VFK33S

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Thermotuf*
Availability	• North America
Filler / Reinforcement	• Glass\Mineral
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.33 g/cm ³	ASTM D792
Molding Shrinkage - Flow (24 hr)	0.30 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus ³	6270 MPa	ASTM D638
Tensile Strength (Break)	93.0 MPa	ASTM D638
Tensile Elongation (Break)	3.2 %	ASTM D638
Flexural Modulus	5290 MPa	ASTM D790
Flexural Strength	148 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	110 J/m	ASTM D256
Unnotched Izod Impact (23°C)	780 J/m	ASTM D4812
Instrumented Dart Impact 23°C, Energy at Peak Load	13.7 J	ASTM D3763

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, 3.20 mm	256 °C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	240 °C	
CLTE Flow: -40 to 40°C Transverse: -40 to 40°C	0.000029 cm/cm/°C 0.000078 cm/cm/°C	ASTM E831

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.15 %
Rear Temperature	260 to 271 °C
Middle Temperature	277 to 288 °C
Front Temperature	293 to 304 °C
Processing (Melt) Temp	282 to 293 °C
Mold Temperature	93.3 to 110 °C
Back Pressure	0.172 to 0.344 MPa
Screw Speed	30 to 60 rpm

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

³ 50 mm/min

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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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