

LNP* Thermocomp* HF004

Polyamide 11

SABIC Innovative Plastics

Technical Data

Product Description

LNP* Thermocomp* HF004 is a compound based on Nylon 11 resin containing Glass Fiber.

Also known as: LNP* Thermocomp* Compound HF-1004

Product reorder name: HF004

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Thermocomp*
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.17 g/cm ³	ISO 1183

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3670 MPa	ISO 527-2/1
Tensile Stress (Break)	81.0 MPa	ISO 527-2
Tensile Strain (Break)	12 %	ISO 527-2
Flexural Modulus	3540 MPa	ISO 178
Flexural Strength	100 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	15 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	76 kJ/m ²	ISO 180/1U

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁴ 1.8 MPa, Unannealed, 64.0 mm Span	165 °C	ISO 75-2/Af

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.15 %
Rear Temperature	199 to 210 °C
Middle Temperature	232 to 243 °C
Front Temperature	260 to 271 °C
Processing (Melt) Temp	227 to 260 °C
Mold Temperature	43.3 to 54.4 °C
Back Pressure	0.172 to 0.344 MPa
Screw Speed	30 to 60 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 Typical properties: these are not to be construed as specifications.

³ 80*10*4

⁴ 80*10*4 mm