

LNP* Thermocomp* HF006EU

Polyamide 11

SABIC Innovative Plastics Europe

Technical Data

Product Description

LNP* THERMOCOMP* HF006EU is a compound based on PA 11 resin containing Glass Fiber. Added features include: Easy Molding, UV-Stabilized.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• SABIC Innovative Plastics Europe • LNP* Thermocomp*
Availability	• Europe
Filler / Reinforcement	• Glass Fiber Reinforcement
Additive	• UV Stabilizer
Features	• Good Moldability
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.28 g/cm³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.30 %	Internal Method
Water Absorption (23°C, 24 hr)	0.18 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	7100 MPa	ISO 527-2/1
Tensile Stress		ISO 527-2/5
Yield	117 MPa	
Break	116 MPa	
Tensile Strain (Yield)	6.0 %	ISO 527-2/5
Flexural Modulus ³	5600 MPa	ISO 178
Flexural Strength ^{3, 4}	169 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	23 kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (23°C)	95 kJ/m²	ISO 180/1U

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁶		
0.45 MPa, Unannealed, 64.0 mm Span	186 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	173 °C	ISO 75-2/Af
CLTE		ISO 11359-2
Flow: 23 to 60°C	0.000024 cm/cm/°C	
Transverse: 23 to 60°C	0.00015 cm/cm/°C	

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