

LNP* Thermocomp* KFB41

Polyamide 46

SABIC Innovative Plastics Europe

Technical Data

Product Description

LNP* THERMOCOMP* KFB41 is a compound based on Acetal Copolymer resin containing Glass Fiber, Glass Bead.

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 Bead\Glass Fiber
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.58 g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.4 %	Internal Method

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3700 MPa	ISO 527-2/1
Tensile Stress		ISO 527-2/5
Yield	41.0 MPa	
Break	40.0 MPa	
Tensile Strain (Yield)	6.4 %	ISO 527-2/5
Flexural Modulus ³	3600 MPa	ISO 178
Flexural Strength ^{3,4}	72.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	5.0 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (23°C)	25 kJ/m ²	ISO 180/1U

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁶		ISO 75-2/Af
1.8 MPa, Unannealed, 64.0 mm Span	113 °C	
CLTE		ISO 11359-2
Flow: 23 to 60°C	0.000086 cm/cm/°C	
Transverse: 23 to 60°C	0.00011 cm/cm/°C	

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	4.0 hr
Rear Temperature	177 to 188 °C
Middle Temperature	193 to 204 °C
Front Temperature	210 to 221 °C
Processing (Melt) Temp	199 to 216 °C
Mold Temperature	82.2 to 110 °C
Back Pressure	0.172 to 0.344 MPa
Screw Speed	30 to 60 rpm