

LNP* Thermocomp* RF006I

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP* Thermotuf* RF006I is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: High Impact.

Also known as: LNP* Thermocomp* Compound RF-1006 HI

Product reorder name: RF006I

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
Features	• High Impact Resistance
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.38 g/cm ³	ISO 1183 ASTM D792
Molding Shrinkage		
Flow: 24 hr	0.30 %	ASTM D955
Across Flow: 24 hr	1.1 %	ASTM D955 ISO 294-4
Flow: 24 hr	0.27 %	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.64 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	10400 MPa	ASTM D638
--	10800 MPa	ISO 527-2/1
Tensile Strength		
Break	161 MPa	ASTM D638
Break	179 MPa	ISO 527-2
Tensile Elongation		
Break	3.2 %	ASTM D638
Break	2.9 %	ISO 527-2
Flexural Modulus		
--	8690 MPa	ASTM D790
--	9480 MPa	ISO 178
Flexural Strength		
--	248 MPa	ASTM D790
--	267 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	120 J/m	ASTM D256
23°C ⁴	15 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	1100 J/m	ASTM D4812
23°C ⁴	76 kJ/m ²	ISO 180/1U
Instrumented Dart Impact		
23°C, Energy at Peak Load	17.9 J	ASTM D3763
--	5.66 J	ISO 6603-2

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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed, 3.20 mm	126 °C	
1.8 MPa, Unannealed, 3.20 mm	121 °C	
CLTE		ASTM E831 ISO 11359-2
Flow: -40 to 40°C	0.000028 cm/cm/°C	
Transverse: -40 to 40°C	0.000061 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	266 to 277 °C
Middle Temperature	282 to 293 °C
Front Temperature	293 to 304 °C
Processing (Melt) Temp	282 to 304 °C
Mold Temperature	93.3 to 110 °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 50 mm/min

⁴ 80*10*4

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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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– Kevin Chase, Owner & President, Chase Plastics



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