

LNP* Thermocomp* RF007SXR

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP* Thermocomp* RF007SXR is a compound based on Hydro-Stable Nylon 66 containing Glass Fiber. Characteristic of this grade is: Heat Stabilized.

Also known as: LNP* Thermocomp* Compound RF007SXR

Product reorder name: RF007SXR

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
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	3.78 g/cm ³	ASTM D792
Molding Shrinkage		ASTM D955
Flow: 24 hr	0.30 to 0.50 %	
Across Flow: 24 hr	1.0 to 3.0 %	
Water Absorption		
24 hr, 50% RH	0.45 %	ASTM D570
Equilibrium, 23°C, 50% RH	0.51 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	11900 MPa	ASTM D638
--	11700 MPa	ISO 527-2/1
Tensile Strength		
Yield ⁴	195 MPa	ASTM D638
Break ⁴	175 MPa	ASTM D638
Break	193 MPa	ISO 527-2/5
Tensile Elongation		
Break ⁴	2.5 %	ASTM D638
Break	2.5 %	ISO 527-2/5
Flexural Modulus		
50.0 mm Span ⁵	10600 MPa	ASTM D790
-- ⁶	9840 MPa	ISO 178
Flexural Strength		
--	268 MPa	ISO 178
Yield, 50.0 mm Span ⁵	285 MPa	ASTM D790
Break, 50.0 mm Span ⁵	284 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	100 J/m	ASTM D256
23°C ⁷	11 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	1000 J/m	ASTM D4812
23°C ⁷	61 kJ/m ²	ISO 180/1U

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Impact	Nominal Value Unit	Test Method
Instrumented Dart Impact		
23°C, Total Energy	7.56 J	ASTM D3763
--	3.04 J	ISO 6603-2
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 3.20 mm	261 °C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	261 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	255 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	252 °C	ISO 75-2/Af
CLTE		ASTM D696
Flow: -30 to 30°C	0.000038 cm/cm/°C	
Transverse: -30 to 30°C	0.000063 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 5.0 mm/min

⁴ Type I, 5.0 mm/min

⁵ 1.3 mm/min

⁶ 2.0 mm/min

⁷ 80*10*4

⁸ 80*10*4 mm

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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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– Birgit Elvardt Bader, Production Manager, Micotron

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– Kevin Chase, Owner & President, Chase Plastics



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