

LNP* Thermocomp* RF00CSXS

Polyamide 66

SABIC Innovative Plastics Asia Pacific



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Technical Data

Product Description

LNP* Thermocomp* RF00CSXS is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Also known as: LNP* Thermocomp* Compound RF-100-12 HS

Product reorder name: RF00CSXS

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• SABIC Innovative Plastics Asia Pacific • LNP* Thermocomp*
Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber Reinforcement
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.72 g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage		
Flow: 24 hr	0.30 %	ASTM D955
Across Flow: 24 hr	0.40 %	ASTM D955
Across Flow: 24 hr	0.44 %	ISO 294-4
Flow: 24 hr	0.29 %	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.30 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	21400 MPa	ASTM D638
--	21400 MPa	ISO 527-2/1
Tensile Strength		
Yield	254 MPa	ASTM D638
Yield	253 MPa	ISO 527-2
Break	254 MPa	ASTM D638
Break	253 MPa	ISO 527-2
Tensile Elongation		
Yield	2.2 %	ASTM D638
Yield	2.1 %	ISO 527-2
Break	2.2 %	ASTM D638
Break	2.1 %	ISO 527-2
Flexural Modulus		
--	19300 MPa	ASTM D790
--	20000 MPa	ISO 178
Flexural Strength		
--	359 MPa	ASTM D790
--	375 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	160 J/m	ASTM D256
23°C ⁴	19 kJ/m ²	ISO 180/1A

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Impact	Nominal Value Unit	Test Method
Unnotched Izod Impact		
23°C	1200 J/m	ASTM D4812
23°C ⁴	77 kJ/m ²	ISO 180/1U
Instrumented Dart Impact		
23°C, Energy at Peak Load	10.3 J	ASTM D3763
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 3.20 mm	260 °C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁵	260 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	255 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	254 °C	ISO 75-2/Af
CLTE		
Flow: -40 to 40°C	0.000038 cm/cm/°C	ASTM E831
Transverse: -40 to 40°C	0.000016 cm/cm/°C	ISO 11359-2
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

⁵ 80*10*4 mm

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Where to Buy

Supplier

SABIC Innovative Plastics Asia Pacific

Shanghai, China

Telephone: 86-21-3222-4500

Web: <http://www.sabic-ip.com/>

Distributor

Please contact the supplier to find a distributor for LNP* Thermocomp* RF00CSXS



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– Kevin Chase, Owner & President, Chase Plastics



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