

LNP* Thermocomp* RF006EUC

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP* Thermocomp* RF006EUC is a compound based on Nylon 6/6 resin containing glass fiber fillers. Added features of this material include Easy Molding and UV Stabilized.

Also known as: LNP* Thermocomp* Compound RF-1006 EM UV
Product Reorder name: RF006EUC

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	• UV Stabilizer
Features	• Good Moldability
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.40 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	0.86 %	ASTM D570
Equilibrium, 23°C, 50% RH	1.4 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	9790 MPa	ASTM D638
--	9850 MPa	ISO 527-2/1
Tensile Strength		
Yield ⁴	136 MPa	ASTM D638
Yield	139 MPa	ISO 527-2/5
Break ⁴	135 MPa	ASTM D638
Break	137 MPa	ISO 527-2/5
Tensile Elongation		
Yield ⁴	2.2 %	ASTM D638
Yield	2.2 %	ISO 527-2/5
Break ⁴	2.3 %	ASTM D638
Break	2.5 %	ISO 527-2/5
Flexural Modulus		
50.0 mm Span ⁵	8640 MPa	ASTM D790
-- ⁶	8200 MPa	ISO 178
Flexural Strength		
--	207 MPa	ISO 178
-- ^{6, 7}	207 MPa	ISO 178
Yield, 50.0 mm Span ⁵	85.5 MPa	ASTM D790
Break, 50.0 mm Span ⁵	80.3 MPa	ASTM D790

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Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	62 J/m	ASTM D256
23°C ⁸	6.7 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	730 J/m	ASTM D4812
23°C ⁸	44 kJ/m ²	ISO 180/1U
Instrumented Dart Impact		
23°C, Total Energy	8.10 J	ASTM D3763
--	1.70 J	ISO 6603-2

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 3.20 mm	249 °C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	248 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	229 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	226 °C	ISO 75-2/Af
CLTE		ASTM D696
Flow: -30 to 30°C	0.000036 cm/cm/°C	
Transverse: -30 to 30°C	0.000079 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 Type I, 5.0 mm/min

⁵ 1.3 mm/min

⁶ 2.0 mm/min

⁷ Break

⁸ 80*10*4

⁹ 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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