

LNP* Thermocomp* RF00AES

Polyamide 66

SABIC Innovative Plastics Europe



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Technical Data

Product Description

LNP THERMOCOMP* RF00AES is a compound based on PA66 resin containing Glass Fiber, Mold Release.

Also known as: LNP* Thermocomp* Compound RF10010EMHS
Product reorder name: RF00AES

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 Fiber Reinforcement
Additive	• Mold Release
RoHS Compliance	• RoHS Compliant

Physical	Nominal Value Unit	Test Method
Density	1.58 g/cm ³	ISO 1183
Molding Shrinkage - Flow ³	0.10 to 0.25 %	Internal Method
Water Absorption		ISO 62
Saturation, 23°C	2.8 %	
Equilibrium, 23°C, 50% RH	0.85 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	16000 MPa	ISO 527-2/1
Tensile Stress (Break)	210 MPa	ISO 527-2/5
Tensile Strain (Break)	2.0 %	ISO 527-2/5
Flexural Modulus ⁴	15000 MPa	ISO 178
Flexural Strength ^{4, 5}	310 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁶		ISO 180/1A
-40°C	11 kJ/m ²	
-30°C	12 kJ/m ²	
-20°C	12 kJ/m ²	
23°C	13 kJ/m ²	
Unnotched Izod Impact Strength ⁶		ISO 180/1U
-30°C	45 kJ/m ²	
23°C	55 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (L-Scale)	114	ISO 2039-2

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁷		ISO 75-2/Ae
1.8 MPa, Unannealed, 100 mm Span	235 °C	
Vicat Softening Temperature		
--	240 °C	ISO 306/A50
--	230 °C	ISO 306/B50
--	232 °C	ISO 306/B120
Ball Pressure Test (125°C)	Pass	IEC 60695-10-2
CLTE		ISO 11359-2
Flow: 23 to 60°C	0.000012 cm/cm/°C	
Transverse: 23 to 60°C	0.00014 cm/cm/°C	

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Electrical	Nominal Value Unit	Test Method
Surface Resistivity	> 1.0E+16 ohm	IEC 60093
Volume Resistivity	> 1.0E+16 ohm·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	19 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
50 Hz	3.40	
60 Hz	3.40	
1 MHz	3.20	
Dissipation Factor		IEC 60250
50 Hz	0.0068	
60 Hz	0.0068	
1 MHz	0.015	
Comparative Tracking Index		IEC 60112
--	500 V	
Solution B	350 V	
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.750 mm	HB	
3.00 mm	HB	
Glow Wire Flammability Index (2.00 mm)	650 °C	IEC 60695-2-12
Oxygen Index	27 %	ISO 4589-2

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 Tensile Bar

⁴ 2.0 mm/min

⁵ Break

⁶ 80*10*4

⁷ 120*10*4 mm

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Where to Buy

Supplier

SABIC Innovative Plastics Europe

, Netherlands

Telephone: +36-1-238-5060

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

Distributor

Polymix

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Europe



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– Kevin Chase, Owner & President, Chase Plastics



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