

LNP* Thermocomp* RF0059

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP THERMOCOMP* RF0059 is a compound based on Nylon 66 resin containing Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant.

Also known as: LNP* Thermocomp* Compound RF-1005 Z250

Product reorder name: RF0059

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E45195-236014 • E121562-101281619
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Thermocomp*
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement
Features	• Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.49 g/cm ³	ASTM D792
Water Absorption (24 hr, 50% RH)	0.80 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Break)	124 MPa	ASTM D638
Tensile Elongation (Break)	1.6 %	ASTM D638
Flexural Modulus	10300 MPa	ASTM D790
Flexural Strength	193 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	48 J/m	ASTM D256
Unnotched Izod Impact (23°C)	230 J/m	ASTM D4812
Instrumented Dart Impact 23°C, Energy at Peak Load	5.50 J	ASTM D3763

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, 3.20 mm 1.8 MPa, Unannealed, 3.20 mm	260 °C 246 °C	ASTM D648
CLTE - Flow (-40 to 40°C)	0.000030 cm/cm/°C	ASTM E831

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.70 mm, Testing by SABIC)	V-0	UL 94

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.15 to 0.25 %
Rear Temperature	249 to 260 °C
Middle Temperature	254 to 266 °C
Front Temperature	260 to 271 °C
Processing (Melt) Temp	266 to 277 °C
Mold Temperature	60.0 to 98.9 °C
Back Pressure	0.172 to 0.344 MPa
Screw Speed	30 to 60 rpm

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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 A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

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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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