

LNP* Thermocomp* RF0057E

Polyamide 66

SABIC Innovative Plastics Asia Pacific



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Technical Data

Product Description

LNP* Thermocomp* RF0057E is a compound based on Nylon 66 resin containing Glass Fiber, Flame Retardant. Added features of this material include: Non-Brominated & Non-Chlorinated Flame Retardant.

Also known as: LNP* Thermocomp* Compound RF-1005 Z270

Product Reorder name: RF0057E

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E207780-101345251 • E207780-101345250
Search for UL Yellow Card	• SABIC Innovative Plastics Asia Pacific • LNP* Thermocomp*
Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber Reinforcement
Features	• Bromine Free • Chlorine Free • Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.39 g/cm ³	ISO 1183
Molding Shrinkage - Flow (24 hr)	0.20 to 0.40 %	ISO 294-4
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9400 MPa	ISO 527-2/1
Tensile Stress (Break)	130 MPa	ISO 527-2/5
Tensile Strain (Break)	2.4 %	ISO 527-2/5
Flexural Modulus ⁴	8000 MPa	ISO 178
Flexural Strength ^{4, 5}	190 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	7.0 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	45 kJ/m ²	ISO 180/1U
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁷ 1.8 MPa, Unannealed, 64.0 mm Span	240 °C	ISO 75-2/Af
Ball Pressure Test ⁸ (240°C)	Pass	IEC 60695-10-2
RTI Elec	140 °C	UL 746
RTI Imp	110 °C	UL 746
RTI Str	140 °C	UL 746
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+12 ohm·cm	ASTM D257
Dielectric Strength (1.60 mm, in Air)	16 kV/mm	ASTM D149
Comparative Tracking Index	600 V	IEC 60112
High Amp Arc Ignition (HAI)	PLC 0	UL 746
Hot-wire Ignition (HWI)	PLC 0	UL 746
Flammability	Nominal Value Unit	Test Method
Flame Rating 0.400 mm 1.60 mm	V-0 5VA	UL 94
Glow Wire Flammability Index (0.400 mm)	960 °C	IEC 60695-2-12

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Flammability	Nominal Value Unit	Test Method
Glow Wire Ignition Temperature		IEC 60695-2-13
0.400 mm	775 °C	
1.00 mm	775 °C	
1.50 mm	775 °C	
3.00 mm	825 °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	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

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.

⁴ 2.0 mm/min

⁵ Yield

⁶ 80*10*4

⁷ 80*10*4 mm

⁸ Approximate maximum

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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* RF0057E



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– Birgit Elvardt Bader, Production Manager, Micotron

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Alternative Resins Search – find replacement plastics within minutes.

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Curve Data – view, overlay and export curve data.



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– Kevin Chase, Owner & President, Chase Plastics



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