

LNP* Thermocomp* RC008ESS

Polyamide 66

SABIC Innovative Plastics Europe



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Technical Data

Product Description

LNP* THERMOCOMP* RC008ESS is a compound based on PA66 resin containing Carbon Fiber. Added features include; Electrically Conductive, Easy Molding, Heat Stabilized.

Also known as: LNP* Thermocomp* Compound RC-1008 EM HS
Product reorder name: RC008ESS

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E45329-101343839
Search for UL Yellow Card	• SABIC Innovative Plastics Europe • LNP* Thermocomp*
Availability	• Europe
Filler / Reinforcement	• Carbon Fiber Reinforcement
Additive	• Heat Stabilizer
Features	• Electrically Conductive • Good Moldability • Heat Stabilized
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.32 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow: 24 hr	0.80 %	
Flow: 24 hr	0.20 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	22900 MPa	ISO 527-2/1
Tensile Stress (Yield)	254 MPa	ISO 527-2/5
Tensile Strain (Break)	2.7 %	ISO 527-2/5
Flexural Modulus ⁴	24600 MPa	ISO 178
Flexural Strength ^{4, 5}	375 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	12 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	70 kJ/m ²	ISO 180/1U

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	10 to 1.0E+2 ohm	ASTM D257

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

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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.
- ⁴ 2.0 mm/min
- ⁵ Yield
- ⁶ 80*10*4

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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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"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"

– Birgit Elvardt Bader, Production Manager, Micotron

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Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



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– Kevin Chase, Owner & President, Chase Plastics



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