

LNP* Verton* RV007ES

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP VERTON* RV007ES is a compound based on Nylon 66 resin containing Long Glass. Added features of this material include: Easy Molding.

Also known as: LNP* Verton* Compound RF-7007 EM HS
Product Reorder name: RV007ES

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E121562-101344709 • E45195-236041 • E121562-101282848 • E45195-236042
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Verton*
Availability	• North America
Filler / Reinforcement	• Long Glass Fiber
Features	• Good Moldability
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.42 g/cm ³	ASTM D792 ISO 1183
Water Absorption (24 hr, 50% RH)	0.97 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	12000 MPa	ISO 527-2/1
Tensile Strength		
Break	205 MPa	ASTM D638
Break	214 MPa	ISO 527-2
Tensile Strain (Break)	2.1 %	ISO 527-2
Flexural Modulus		
--	9880 MPa	ASTM D790
--	10200 MPa	ISO 178
Flexural Strength	309 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	280 J/m	ASTM D256
-40°C ⁴	25 kJ/m ²	ISO 180/1A
23°C ⁴	29 kJ/m ²	ISO 180/1A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 3.20 mm	245 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	252 °C	ISO 75-2/Af

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.15 to 0.25 %
Rear Temperature	282 to 293 °C
Middle Temperature	288 to 299 °C
Front Temperature	288 to 299 °C
Processing (Melt) Temp	288 to 304 °C

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Injection	Nominal Value Unit
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 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 80*10*4

⁵ 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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"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.

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– Kevin Chase, Owner & President, Chase Plastics



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