

LNP* Verton* RV00AES

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP VERTON* RV00AES 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-700-10 EM HS

Product reorder name: RV00AES

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E45195-236033 • E121562-101344705
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	1.58 g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage		ASTM D955 ISO 294-4
Flow: 24 hr	0.18 %	
Across Flow: 24 hr	0.22 %	
Water Absorption (24 hr, 50% RH)	0.0098 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	17500 MPa	ASTM D638
--	18400 MPa	ISO 527-2/1
Tensile Strength		
Break	254 MPa	ASTM D638
Break	256 MPa	ISO 527-2
Tensile Elongation (Break)	1.9 %	ASTM D638 ISO 527-2
Flexural Modulus		
--	14200 MPa	ASTM D790
--	15600 MPa	ISO 178
Flexural Strength		
--	374 MPa	ASTM D790
--	371 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	380 J/m	ASTM D256
-40°C ⁵	39 kJ/m ²	ISO 180/1A
23°C ⁵	45 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (23°C)	89 kJ/m ²	ISO 180/1U
Instrumented Dart Impact		
23°C, Energy at Peak Load	15.0 J	ASTM D3763
--	15.0 J	ISO 6603-2

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Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed, 64.0 mm Span ⁶	258 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	241 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁶	253 °C	ISO 75-2/Af
CLTE		ASTM E831
Flow: -40 to 40°C	0.000019 cm/cm/°C	ISO 11359-2
Transverse: -40 to 40°C	0.000067 cm/cm/°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	282 to 293 °C
Middle Temperature	288 to 299 °C
Front Temperature	288 to 299 °C
Processing (Melt) Temp	288 to 304 °C
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 50 mm/min

⁵ 80*10*4

⁶ 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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– 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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