

LNP* Verton* RV00CEXS

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP* Verton* RV00CEXS is a compound based on Nylon 6/6 containing Long Glass Fiber. Characteristics of this grade are Easy Molding.

Also known as: LNP* Verton* Compound RF-700-12 EM BK9001

Product reorder name: RV00CEXS

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E45195-235990 • E121562-101344708
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	1.72 g/cm ³	ASTM D792
Molding Shrinkage		ASTM D955
Flow: 24 hr	0.30 to 0.50 %	
Across Flow: 24 hr	0.70 to 0.90 %	
Water Absorption		
24 hr, 50% RH	0.53 %	ASTM D570
Equilibrium, 23°C, 50% RH	0.67 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	22100 MPa	ASTM D638
--	21900 MPa	ISO 527-2/1
Tensile Strength		
Break ⁵	254 MPa	ASTM D638
Break	264 MPa	ISO 527-2/5
Tensile Elongation		
Break ⁵	1.6 %	ASTM D638
Break	1.6 %	ISO 527-2/5
Flexural Modulus		
50.0 mm Span ⁶	18100 MPa	ASTM D790
-- ⁷	18700 MPa	ISO 178
Flexural Strength		
--	404 MPa	ISO 178
Yield, 50.0 mm Span ⁶	404 MPa	ASTM D790
Break, 50.0 mm Span ⁶	403 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	410 J/m	ASTM D256
23°C ⁸	38 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	1200 J/m	ASTM D4812
23°C ⁸	62 kJ/m ²	ISO 180/1U

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Impact	Nominal Value Unit	Test Method
Instrumented Dart Impact		
23°C, Total Energy	13.6 J	ASTM D3763
--	9.70 J	ISO 6603-2
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 3.20 mm	252 °C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	253 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	248 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	247 °C	ISO 75-2/Af
CLTE		ASTM D696
Flow: -30 to 30°C	0.000049 cm/cm/°C	
Transverse: -30 to 30°C	0.000063 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 Type I, 5.0 mm/min

⁶ 1.3 mm/min

⁷ 2.0 mm/min

⁸ 80*10*4

⁹ 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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– Kevin Chase, Owner & President, Chase Plastics



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