

LNP™ VERTON™ RV00AE compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP VERTON RV00AE is a compound based on PA 66 resin containing Long Glass Fiber. Added features include; Easy Molding.

Also known as: LNP* VERTON* Compound RF-700-10 EM

Product reorder name: RV00AE

General Information			
UL YellowCard	E45329-101282648		
Filler / Reinforcement	Long glass fiber		
Features	Good formability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.22	%	ISO 294-4
Flow direction: 24 hours	0.15 - 0.35	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18400	MPa	ISO 527-2/1
Tensile Stress (Break)	265	MPa	ISO 527-2/5
Tensile Strain (Break)	1.9	%	ISO 527-2/5
Flexural Modulus ¹	15600	MPa	ISO 178
Flexural Stress	370	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ²			ISO 180/1A
-40°C	38	kJ/m ²	ISO 180/1A
23°C	45	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	89	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	152	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	258	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	253	°C	ISO 75-2/ Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.9E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	6.7E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	

Suggested Max Moisture	0.15 - 0.25	%
Rear Temperature	282 - 293	°C
Middle Temperature	288 - 299	°C
Front Temperature	288 - 299	°C
Processing (Melt) Temp	288 - 304	°C
Mold Temperature	93.3 - 110	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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