

LNP™ VERTON™ RV00AE compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP VERTON RV00AE is a compound based on Nylon 66 containing 50% Long Glass Fiber. Added features of this grade include: Easy Molding, Structural.

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

Product reorder name: RV00AE

General Information			
UL YellowCard	E121562-101344706		
Filler / Reinforcement	Long Glass Fiber,50% Filler by Weight		
Features	Good Moldability		
Uses	Structural Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.64	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	15700	MPa	ASTM D638
--	14500	MPa	ISO 527-2/1
Tensile Strength			
Break ²	219	MPa	ASTM D638
Break	216	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.1	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	13200	MPa	ASTM D790
-- ⁵	13300	MPa	ISO 178
Flexural Stress			
--	342	MPa	ISO 178
Yield, 50.0 mm Span ⁶	362	MPa	ASTM D790
Break, 50.0 mm Span ⁷	359	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	390	J/m	ASTM D256
23°C ⁸	42	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1300	J/m	ASTM D4812
23°C ⁹	83	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	15.5	J	ASTM D3763
--	8.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	226	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	224	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	223	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	222	°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	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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