

LNP™ VERTON™ RV00AES compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP VERTON* RV00AES is a compound based on Nylon 66 resin containing 50% Long Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized, Structural.

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

Product reorder name: RV00AES

General Information			
UL YellowCard	E121562-101344705		
Filler / Reinforcement	Long Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Moldability		
	Heat Stabilized		
Uses	Structural Parts		
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)	9.8E-3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	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 ²	39	kJ/m ²	ISO 180/1A
23°C ³	45	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (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
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ⁵	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, ISO 11359-2
Flow : -40 to 40°C	1.9E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.7E-5	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	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		
6.	80*10*4 mm		

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