

LNP™ VERTON™ RV00AES compound

Polyamide 66
SABIC Innovative Plastics

Message:

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

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

Product reorder name: RV00AES

General Information			
UL YellowCard	E45329-101282647		
Filler / Reinforcement	Long glass fiber		
Additive	heat stabilizer		
Features	Good formability		
	Thermal Stability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.58	g/cm³	ASTM D792
--	1.60	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.18	%	ASTM D955
Transverse flow: 24 hours	0.22	%	ASTM D955
Vertical flow direction: 24 hours	0.80	%	ISO 294-4
Flow direction: 24 hours	0.30	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	9.8E-3	%	ASTM D570
23°C, 24 hr	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	17500	MPa	ASTM D638
--	17800	MPa	ISO 527-2/1
Tensile Stress			
Yield	276	MPa	ISO 527-2/5
Fracture	254	MPa	ASTM D638
Fracture	265	MPa	ISO 527-2
Fracture	276	MPa	ISO 527-2/5
Tensile Strain			
Yield	2.0	%	ISO 527-2/5

Fracture	1.9	%	ASTM D638, ISO 527-2
Fracture	2.0	%	ISO 527-2/5
Flexural Modulus			
--	14200	MPa	ASTM D790
--	15600	MPa	ISO 178
-- ²	15000	MPa	ISO 178
Flexural Strength			
--	374	MPa	ASTM D790
--	371	MPa	ISO 178
--	366	MPa	ISO 178
Flexural Strain at Break ³	3.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	380	J/m	ASTM D256
-40°C ⁴	39	kJ/m ²	ISO 180/1A
23°C ⁵	45	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	90	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, 64.0mm span ⁷	259	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	241	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁸	256	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
RTI Elec	105	°C	UL 746
RTI Imp	110	°C	UL 746
RTI	110	°C	UL 746
Electrical	Nominal Value		Test Method
High Amp Arc Ignition (HAI)	PLC 0		UL 746
Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	HB		UL 94
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.	50 mm/min	
2.	2.0 mm/min	
3.	2 mm/min	
4.	80*10*4	
5.	80*10*4	
6.	80*10*4	
7.	80*10*4 mm	
8.	80*10*4 mm	

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