LNP™ VERTON™ RV008ES compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP VERTON RV008ES is a compound based on Nylon 66 resin containing 40% Long Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized, Structural.
Also known as: LNP* VERTON* Compound RF-7008 EM HS
Product reorder name: RV008ES

General Information			
Filler / Reinforcement	Long Glass Fiber,40% 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			
--	1.48	g/cm³	ASTM D792
--	1.47	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.69	%	ISO 294-4
Flow : 24 hr	0.29	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.70	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	13800	MPa	ASTM D638
--	13200	MPa	ISO 527-2/1
Tensile Strength			
Yield	214	MPa	ASTM D638
Yield	207	MPa	ISO 527-2
Break	214	MPa	ASTM D638
Break	206	MPa	ISO 527-2
Tensile Elongation			
Yield	1.9	%	ASTM D638
Yield	2.1	%	ISO 527-2
Break	1.9	%	ASTM D638
Break	2.0	%	ISO 527-2

Flexural Modulus			
--	11700	MPa	ASTM D790
--	12000	MPa	ISO 178
Flexural Strength			
--	303	MPa	ASTM D790
--	301	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	210	J/m	ASTM D256
23°C [2]	21	kJ/m^2	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C [3]	70	kJ/m^2	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	8.60	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	253	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [4]	255	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	248	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [5]	250	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	6.1E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	6.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	2.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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 mm		
5.	80*10*4 mm		

Recommended distributors for this material

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