

LNP VERTON RV0079 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP VERTON* RV0079 is a compound based on Nylon 66 resin containing 35% Long Glasss Fiber. Added features of this material include: Flame Retardant, Structural.
Also known as: LNP* VERTON* Compound RF-7007 FR
Product reorder name: RV0079

General Information			
UL YellowCard	E121562-101281601		
Filler / Reinforcement	Long Glass Fiber,35% Filler by Weight		
Features	Flame Retardant		
Uses	Structural Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.59	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.75	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14800	MPa	ASTM D638
--	12400	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	194	MPa	ASTM D638
Yield	177	MPa	ISO 527-2/5
Break ³	194	MPa	ASTM D638
Break	177	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.8	%	ASTM D638
Yield	1.7	%	ISO 527-2/5
Break ⁵	1.8	%	ASTM D638
Break	1.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	9700	MPa	ASTM D790
-- ⁷	10800	MPa	ISO 178
Flexural Strength ⁸			ASTM D790

Yield, 50.0 mm Span	241	MPa	
Break, 50.0 mm Span	241	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	310	J/m	ASTM D256
23°C ⁹	36	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	810	J/m	ASTM D4812
23°C ¹⁰	53	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.5	J	ASTM D3763
--	5.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	259	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	259	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	254	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	255	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.8E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.70 mm, Testing by SABIC)	V-0		UL 94
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.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		

8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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