

LNP™ VERTON™ RV00CESS compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP VERTON* RV00CESS is a compound based on Nylon 66 resin containing Long Glass. Added features of this material include: Easy Molding.

Also known as: LNP* VERTON* Compound RF-700-12 EM HS

Product reorder name: RV00CESS

General Information			
Filler / Reinforcement	Long glass fiber		
Features	Good formability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.71	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.20	%	ASTM D955
Transverse flow: 24 hours	0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.41	%	ISO 294-4
Flow direction: 24 hours	0.20	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.44	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19700	MPa	ASTM D638
--	23300	MPa	ISO 527-2/1
Tensile Strength			
Fracture	270	MPa	ASTM D638
Fracture	261	MPa	ISO 527-2
Tensile Elongation (Break)	1.6	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	18000	MPa	ASTM D790
--	18900	MPa	ISO 178
Flexural Strength			
--	289	MPa	ASTM D790
--	433	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	410	J/m	ASTM D256
-40°C ²	43	kJ/m ²	ISO 180/1A
23°C ³	54	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	100	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			

23°C, Energy at Peak Load	18.0	J	ASTM D3763
--	18.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 64.0mm span ⁵	252	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	247	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁶	252	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	1.8E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	1.7E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	5.4E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	5.3E-5	cm/cm/°C	ISO 11359-2
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.	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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