

LNP™ VERTON™ RVL36 compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP VERTON RVL36 is a compound based on Nylon 66 resin containing Long Glass Fiber, PTFE.

Also known as: LNP* VERTON* Compound RFL-8036

Product reorder name: RVL36

General Information			
Filler / Reinforcement	Long Glass Fiber		
Additive	PTFE Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 24 hr	0.69	%	
Flow : 24 hr	0.25	%	
Water Absorption			ISO 62
23°C, 24 hr	1.4	%	
Equilibrium, 23°C, 50% RH	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	185	MPa	ISO 527-2/5
Tensile Strain (Break)	2.9	%	ISO 527-2/5
Flexural Modulus ¹			ISO 178
--	8900	MPa	
60°C	7100	MPa	
100°C	5800	MPa	
150°C	5200	MPa	
200°C	4800	MPa	
Flexural Stress			ISO 178
--	265	MPa	
60°C	208	MPa	
100°C	155	MPa	
150°C	129	MPa	
200°C	105	MPa	
Flexural Strain at Break ²			ISO 178
--	3.3	%	
60°C	3.9	%	
100°C	4.0	%	

150°C	3.6	%	
200°C	3.4	%	
Wear Factor - Washer	12.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C ³	15	kJ/m ²	
23°C ⁴	16	kJ/m ²	
Unnotched Izod Impact Strength ⁵			ISO 180/1U
-40°C	50	kJ/m ²	
23°C	54	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed, 64.0 mm Span)	258	°C	ISO 75-2/Af
Specific Heat	1850	J/kg/°C	ASTM E1269
Thermal Conductivity	0.25	W/m/K	ASTM D5930
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.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*3		
4.	80*10*4		
5.	80*10*4		
6.	80*10*4 mm		

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