

LNP™ VERTON™ MV00AS compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP VERTON* MV00AS is a compound based on Polypropylene resin containing 50% Long Glass Fiber. Added features of this material include: Chemically Coupled, Heat Stabilized, Structural.

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

Product reorder name: MV00AS

General Information			
Filler / Reinforcement	Long Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
Uses	Structural Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792, ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10400	MPa	ASTM D638
--	13900	MPa	ISO 527-2/1
Tensile Strength			
Break	131	MPa	ASTM D638
Break	141	MPa	ISO 527-2
Tensile Elongation			
Break	1.9	%	ASTM D638
Break	1.7	%	ISO 527-2
Flexural Modulus			
--	9340	MPa	ASTM D790
--	11100	MPa	ISO 178
Flexural Strength			
--	187	MPa	ASTM D790
--	214	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.34		
vs. Itself - Static	0.52		
Wear Factor - Washer	73.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	210	J/m	ASTM D256
23°C ²	29	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	66	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.0	J	ASTM D3763
--	13.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ⁴	164	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	157	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	160	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	4.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	232 to 243	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	249 to 260	°C	
Processing (Melt) Temp	221 to 249	°C	
Mold Temperature	37.8 to 65.6	°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		

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