

LNP™ VERTON™ MV00AS compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP VERTON* MV00AS is a compound based on Polypropylene resin containing Long Glass. Added features of this material include: Chemically Coupled.

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

Product reorder name: MV00AS

General Information			
Filler / Reinforcement	Long glass fiber		
Features	Chemical coupling		
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			
Fracture	131	MPa	ASTM D638
Fracture	141	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.9	%	ASTM D638
Fracture	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
With self-dynamics	0.34		ASTM D3702 Modified
With Self-Static	0.52		ASTM D3702 Modified
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, 64.0mm span ⁴	164	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	157	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	160	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	3.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	4.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	232 - 243	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	249 - 260	°C	
Processing (Melt) Temp	221 - 249	°C	
Mold Temperature	37.8 - 65.6	°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 mm		
5.	80*10*4 mm		

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