

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, heat stabilized

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

Product reorder name: MV00AS

General Information			
Filler / Reinforcement	Long glass fiber		
Additive	heat stabilizer		
Features	Chemical coupling		
	Thermal Stability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2/1
Tensile Stress (Break)	140	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ¹	11700	MPa	ISO 178
Flexural Stress	209	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 ² (23°C)	27	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	55	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	164	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	159	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	3.4E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.6E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	

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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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