

LNP™ VERTON™ MV006S compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP VERTON* MV006S 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-7006 HS

Product reorder name: MV006S

General Information			
Filler / Reinforcement	Long glass fiber		
Features	Chemical coupling		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.13	g/cm ³	ASTM D792
--	1.12	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.30	%	ASTM D955
Transverse flow: 24 hours	0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.59	%	ISO 294-4
Flow direction: 24 hours	0.27	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7810	MPa	ISO 527-2/1
Tensile Strength			
Fracture	103	MPa	ASTM D638
Fracture	105	MPa	ISO 527-2
Tensile Elongation (Break)	2.6	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	6030	MPa	ASTM D790
--	6450	MPa	ISO 178
Flexural Strength			
--	150	MPa	ASTM D790
--	153	MPa	ISO 178
Coefficient of Friction			
With self-dynamics	0.36		ASTM D3702 Modified
With Self-Static	0.39		ASTM D3702 Modified
Wear Factor - Washer	44.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	160	J/m	ASTM D256
23°C ¹	19	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	770	J/m	ASTM D4812
23°C ²	50	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.0	J	ASTM D3763
--	10.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed, 64.0 mm Span)	158	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	1.8E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	4.5E-5	cm/cm/°C	ASTM E831
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.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		

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