

LNP™ VERTON™ MV006BS compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP VERTON MV006BS is a compound based on Polypropylene resin containing 30% Long Glass Fiber. Added features of this grade include: Heat Stabilized, Burst Pressure, Structural, Chemically Coupled.

Also known as: LNP* VERTON* Compound MFX-7006 HS BP

Product reorder name: MV006BS

General Information			
Filler / Reinforcement	Long Glass Fiber,30% 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	1.09	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.60	%	
Across Flow : 24 hr	0.50 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6930	MPa	ASTM D638
--	6340	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	104	MPa	ASTM D638
Yield	96.0	MPa	ISO 527-2/5
Break ³	104	MPa	ASTM D638
Break	87.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.4	%	ASTM D638
Yield	2.3	%	ISO 527-2/5
Break ⁵	2.4	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	5840	MPa	ASTM D790

-- ⁷	6.00	MPa	ISO 178
Flexural Stress			
--	145	MPa	ISO 178
Yield, 50.0 mm Span ⁸	162	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	210	J/m	ASTM D256
23°C ⁹	20	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	770	J/m	ASTM D4812
23°C ¹⁰	53	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	12.8	J	ASTM D3763
--	6.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	163	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	162	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	155	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	155	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	7.6E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.6E-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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		

9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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