

## SABIC Innovative Plastics LNP VERTON MV006BS PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-VERTON-MV006BS-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-MV006BS-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.09 g/cc	0.0394 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	23°C / 50% RH; ISO 62
	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	5 mm/min; ISO 527
	104 MPa	15100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	96.0 MPa	13900 psi	5 mm/min; ISO 527
	104 MPa	15100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.33 GPa	918 ksi	1 mm/min; ISO 527
	6.93 GPa	1010 ksi	50 mm/min; ASTM D638
Flexural Strength	145 MPa	21000 psi	ISO 178
Flexural Yield Strength	162 MPa	23500 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	5.84 GPa	847 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.14 J/cm	4.01 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.70 J/cm	14.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m <sup>2</sup>	25.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J @Temperature 23.0 °C	8.85 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 µm/m-°C @Temperature -40.0 - 40.0 °C	42.2 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	76.0 µm/m-°C @Temperature -40.0 - 40.0 °C	42.2 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	162 °C	324 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	163 °C @Thickness 3.20 mm	325 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	155 °C @Thickness 3.20 mm	311 °F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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