

**SABIC Innovative Plastics LNP VERTON MV008S PP (Asia Pacific)**

Category : Polymer , Thermoplastic , Polypropylene (PP)

**Material Notes:**

LNP VERTON\* MV008S is a compound based on Polypropylene resin containing Long Glass. Added features of this material include:  
Chemically Coupled.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-VERTON-MV008S-PP-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-MV008S-PP-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ISO 1183
	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0032 cm/cm	0.0032 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	ASTM D638
	127 MPa	18400 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
	2.6 %	2.6 %	ASTM D638
Tensile Modulus	9.55 GPa	1390 ksi	50 mm/min; ASTM D638
	10.12 GPa	1468 ksi	1 mm/min; ISO 527
Flexural Strength	179 MPa	26000 psi	ASTM D790
	187 MPa	27100 psi	ISO 178
Flexural Modulus	7.80 GPa	1130 ksi	ASTM D790
	8.25 GPa	1200 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	2.08 J/cm Metric	3.90 ft-lb/in English	ASTM D256 Comments
Izod Impact, Notched (ISO)	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	10.0 J	7.38 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	25.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	46.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	25.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	82.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	82.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	164 $\text{Å}^\circ\text{C}$	327 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	157 $\text{Å}^\circ\text{C}$	315 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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