

**SABIC Innovative Plastics LNP VERTON RV008ES PA 66**

Category : Polymer , Thermoplastic , Nylon , Nylon 66

**Material Notes:**

LNP\* VERTON\* RV008ES is a compound based on Nylon 66 resin containing 40% Long Glass Fiber. Added features of this material include:  
Easy Molding, Heat Stabilized, Structural.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-VERTON-RV008ES-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV008ES-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ISO 1183
	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.700 %	0.700 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0069 cm/cm	0.0069 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	206 MPa	29900 psi	ISO 527
	213 MPa	30900 psi	ASTM D638
Tensile Strength, Yield	207 MPa	30000 psi	ISO 527
	213 MPa	30900 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
	1.9 %	1.9 %	ISO 527
Elongation at Yield	1.9 %	1.9 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Tensile Modulus	13.21 GPa	1916 ksi	1 mm/min; ISO 527

Mechanical Properties	13.78 GPa Metric	1999 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	301 MPa	43700 psi	ISO 178
	303 MPa	43900 psi	ASTM D790
Flexural Modulus	11.72 GPa	1700 ksi	ASTM D790
	12.0 GPa	1740 ksi	ISO 178
Izod Impact, Notched	2.13 J/cm	3.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.28 J/cm	23.01 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)	70.0 kJ/m <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	34.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	62.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	34.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	252 $\text{Å}^\circ\text{C}$	486 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	247 $\text{Å}^\circ\text{C}$	477 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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