

## SABIC Innovative Plastics LNP VERTON RV00AE PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* VERTON\* RV00AE is a compound based on Nylon 66 containing 50% Long Glass Fiber. Added features of this grade include: Easy Molding, Structural.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-VERTON-RV00AE-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV00AE-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Density	1.59 g/cc	0.0574 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.640 %	0.640 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	216 MPa	31300 psi	5 mm/min; ISO 527
	219 MPa	31800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	14.45 GPa	2096 ksi	1 mm/min; ISO 527
	15.66 GPa	2271 ksi	50 mm/min; ASTM D638
Flexural Strength	342 MPa	49600 psi	ISO 178
	359 MPa	52100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	362 MPa	52500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	13.2 GPa	1910 ksi	1.3 mm/min, 50 mm span; ASTM D790
	13.31 GPa	1930 ksi	2 mm/min; ISO 178

<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Izod Impact, Unnotched	12.6 J/cm	23.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	42.0 kJ/m <sup>2</sup>	20.0 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	83.0 kJ/m <sup>2</sup>	39.5 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	8.00 J	5.90 ft-lb	Multiaxial Impact; ISO 6603

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	19.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	74.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	224 Â°C	435 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	226 Â°C @Thickness 3.20 mm	439 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	222 Â°C	432 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	223 Â°C @Thickness 3.20 mm	433 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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