

## SABIC Innovative Plastics LNP VERTON RX00327 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* VERTON\* RX00327 is a compound based on Nylon 66 resin containing proprietary fillers. Added feature of this material is: Structural.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-VERTON-RX00327-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RX00327-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.690 %	0.690 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm @Time 86400 sec	0.0020 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm @Time 86400 sec	0.0060 - 0.0090 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	206 MPa	29900 psi	5 mm/min; ISO 527
	208 MPa	30200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	206 MPa	29900 psi	5 mm/min; ISO 527
	208 MPa	30200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	14.74 GPa	2138 ksi	1 mm/min; ISO 527
	15.24 GPa	2210 ksi	50 mm/min; ASTM D638
Flexural Strength	291 MPa	42200 psi	ISO 178
	297 MPa	43100 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	297 MPa Metric	43100 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	11.9 GPa	1730 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.91 GPa	1727 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.39 J/cm	4.48 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.9 J/cm	20.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	27.0 kJ/m <sup>2</sup>	12.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	67.0 kJ/m <sup>2</sup>	31.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 °C	6.64 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.0 µm/m-°C @Temperature -30.0 - 30.0 °C	18.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	77.0 µm/m-°C @Temperature -30.0 - 30.0 °C	42.8 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	257 °C	495 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	258 °C @Thickness 3.20 mm	496 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 °C @Thickness 3.20 mm	487 °F @Thickness 0.126 in	unannealed; ASTM D648

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