

## SABIC Innovative Plastics LNP Verton RV008ESV PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

### Material Notes:

40% long glass fiber filled PA66 Verton Xtreme XCThis data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Verton-RV008ESV-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Verton-RV008ESV-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.498 g/cc	0.05412 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	1.1 %	1.1 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.72 %	0.72 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	207 MPa	30000 psi	Type I, 5 mm/min; ASTM D 638
	209 MPa	30300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	207 MPa	30000 psi	Type I, 5 mm/min; ASTM D 638
	208 MPa	30200 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	14.06 GPa	2039 ksi	1 mm/min; ISO 527
	14.06 GPa	2039 ksi	50 mm/min; ASTM D 638
Flexural Strength	285 MPa	41300 psi	2 mm/min; ISO 178
Flexural Yield Strength	288 MPa	41800 psi	1.3 mm/min, 50 mm span; ASTM D 790
	10.3 GPa	1490 ksi	1.3 mm/min, 50 mm span; ASTM D

Flexural Modulus Mechanical Properties	Metric	English	790 Comments
	10.57 GPa	1533 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.07 J/cm @Temperature 23.0 °C	3.88 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	11.4 J/cm @Temperature 23.0 °C	21.4 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	8.57 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	73.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	34.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	7.00 J @Temperature 23.0 °C	5.16 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 - 28.0 µm/m-°C @Temperature -30.0 - 30.0 °C	14.4 - 15.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM E 831
CTE, linear, Transverse to Flow	63.0 - 65.0 µm/m-°C @Temperature -30.0 - 30.0 °C	35.0 - 36.1 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	259 °C	498 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	254 °C @Thickness 3.20 mm	489 °F @Thickness 0.126 in	unannealed; ASTM D 648

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