

## SABIC Innovative Plastics LNP Verton RV004ESV\_GY7E070 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

### Material Notes:

Preliminary data for 20% long glass fiber filled, single pellet color gray, PA66 This 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-RV004ESVGY7E070-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Verton-RV004ESVGY7E070-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM D 792
	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	1.2 %	1.2 %	23°C / 50% RH; ISO 62
	0.85 %	0.85 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0037 - 0.0057 cm/cm	0.0037 - 0.0057 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	118 MPa	17100 psi	Type I, 5 mm/min; ASTM D 638
	125 MPa	18100 psi	5 mm/min; ISO 527
Tensile Strength, Yield	118 MPa	17100 psi	Type I, 5 mm/min; ASTM D 638
	125 MPa	18100 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	6.23 GPa	904 ksi	1 mm/min; ISO 527
	6.92 GPa	1000 ksi	50 mm/min; ASTM D 638
Flexural Strength	180 MPa	26100 psi	1.3 mm/min, 50 mm span; ASTM D 790
	184 MPa	26700 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	5.57 GPa	800 ksi	2 mm/min; ISO 178
	6.54 GPa	949 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.950 J/cm @Temperature -40.0 °C	1.78 ft-lb/in @Temperature -40.0 °F	ASTM D 256
	0.950 J/cm @Temperature 23.0 °C	1.78 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	6.02 J/cm @Temperature 23.0 °C	11.3 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80*10*4; ISO 180/1A
	9.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	18.1 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80*10*4; ISO 180/1U
	41.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	19.5 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	5.00 J @Temperature 23.0 °C	3.69 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763
	8.00 J @Temperature 23.0 °C	5.90 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.2 µm/m-°C @Temperature -30.0 - 30.0 °C	24.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM E 831
CTE, linear, Transverse to Flow	75.8 µm/m-°C @Temperature -30.0 - 30.0 °C	42.1 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	261 °C	502 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 °C @Thickness 3.20 mm	502 °F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (184 psi)	255 °C	491 °F	9.4 sp=64mm; ISO 75/Af
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648

## Contact Songhan Plastic Technology Co.,Ltd.

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