

## SABIC Innovative Plastics LNP VERTON PV007 PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

**Material Notes:**

LNP\* Verton\* PV007 is a compound based on Nylon 6 resin containing Long Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-VERTON-PV007-PA-6-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-PV007-PA-6-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ASTM D792
	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	1.30 %	1.30 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0049 cm/cm	0.0049 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ASTM D638
Tensile Strength, Yield	190 MPa	27600 psi	ASTM D638
Elongation at Break	2.7 %	2.7 %	ASTM D638
Elongation at Yield	2.7 %	2.7 %	ASTM D638
Tensile Modulus	9.65 GPa	1400 ksi	50 mm/min; ASTM D638
Flexural Strength	296 MPa	42900 psi	ASTM D790
	297 MPa	43100 psi	ISO 178
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched	2.13 J/cm	3.99 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	86.0 kJ/m <sup>2</sup>	40.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	212 °C @Thickness 3.20 mm	414 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	209 °C	408 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 °C @Thickness 3.20 mm	405 °F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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