

SABIC Innovative Plastics LNP VERTON RV0079 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP VERTON* RV0079 is a compound based on Nylon 66 resin containing 35% Long Glasss Fiber. Added features of this material include:
Flame Retardant, Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV0079-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
	1.69 g/cc	0.0611 lb/in ³	ISO 1183
Moisture Absorption	0.590 %	0.590 %	50% RH, 24 hrs; ASTM D570
	0.750 %	0.750 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	177 MPa	25700 psi	5 mm/min; ISO 527
	194 MPa	28100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	177 MPa	25700 psi	5 mm/min; ISO 527
	194 MPa	28100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	1.7 %	1.7 %	5 mm/min; ISO 527
Elongation at Yield	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	1.7 %	1.7 %	5 mm/min; ISO 527
Tensile Modulus	12.38 GPa	1796 ksi	1 mm/min; ISO 527
	14.78 GPa	2144 ksi	50 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	241 MPa Metric	35000 psi English	D790 Comments
Flexural Modulus	9.70 GPa	1410 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.81 GPa	1568 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.14 J/cm	5.88 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.06 J/cm	15.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	36.0 kJ/m ²	17.1 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 °C	8.11 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	19.0 µm/m-°C @Temperature -30.0 - 30.0 °C	10.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	48.0 µm/m-°C @Temperature -30.0 - 30.0 °C	26.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 °C	498 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	259 °C @Thickness 3.20 mm	498 °F @Thickness 0.126 in	unannealed; ASTM D648
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 D648
Flammability, UL94	V-0 @Thickness 1.70 mm	V-0 @Thickness 0.0669 in	UL 94 by SABIC-IP

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