

SABIC Innovative Plastics LNP VERTON RV00AEXP PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* VERTON* RV00AEXP is a compound based on PA 66 resin containing Long Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV00AEXP-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Water Absorption	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0024 cm/cm @Time 86400 sec	0.0024 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0079 cm/cm @Time 86400 sec	0.0079 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	268 MPa	38900 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	17.6 GPa	2550 ksi	1 mm/min; ISO 527
Flexural Strength	405 MPa	58700 psi	2 mm/min; ISO 178
Flexural Modulus	15.5 GPa	2250 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	100 kJ/m ²	47.6 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	13.3 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	54.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	30.0 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2

Thermal Properties (at 25°C)	Metric	English	Comments
Deflection Temperature at 0.46 MPa	265 °C	509 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	262 °C	504 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
UL RTI, Electrical	105 °C	221 °F	UL 746B
UL RTI, Mechanical with Impact	110 °C	230 °F	UL 746B
UL RTI, Mechanical without Impact	110 °C	230 °F	UL 746B
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	UL 94

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

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