

SABIC Innovative Plastics LNP VERTON RV00AES PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP VERTON* RV00AES is a compound based on PA 66 resin containing Long Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV00AES-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0022 cm/cm	0.0022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	254 MPa	36800 psi	ASTM D638
	265 MPa	38400 psi	ISO 527
	276 MPa	40000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	276 MPa	40000 psi	5 mm/min; ISO 527
Elongation at Break	1.9 %	1.9 %	ASTM D638
	1.9 %	1.9 %	ISO 527
	2.0 %	2.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Flexural Strain, break, 2 mm/min; ISO

Mechanical Properties	Metric	English	178 Comments
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	17.51 GPa	2540 ksi	50 mm/min; ASTM D638
	17.8 GPa	2580 ksi	1 mm/min; ISO 527
Flexural Strength	370 MPa	53700 psi	ISO 178
	374 MPa	54200 psi	ASTM D790
Flexural Yield Strength	366 MPa	53100 psi	2 mm/min; ISO 178
Flexural Modulus	14.16 GPa	2054 ksi	ASTM D790
	15.0 GPa	2180 ksi	2 mm/min; ISO 178
	15.55 GPa	2255 ksi	ISO 178
Izod Impact, Notched	3.84 J/cm	7.19 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A
	38.0 kJ/m ²	18.1 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ²	42.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	15.0 J	11.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.5 Âµm/m-Â°C	10.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	18.6 Âµm/m-Â°C	10.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	67.3 Âµm/m-Â°C	37.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	67.3 Âµm/m-Â°C	37.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	259 Â°C	498 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	256 Â°C	493 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 Â°C @Thickness 3.20 mm	466 Â°F @Thickness 0.126 in	unannealed; ASTM D648
UL RTI, Electrical	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical with Impact	110 Â°C	230 Â°F	UL 746B
UL RTI, Mechanical without Impact	110 Â°C	230 Â°F	UL 746B
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	UL 94

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	0.00 - 2.0 sec	0.00 - 2.0 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

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