

SABIC Innovative Plastics LNP Verton RX93407D PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Verton* RX93407D is a compound based on Nylon 66 resin. 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-RX93407D-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D 792
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D 792
	1.54 g/cc	0.0556 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.93 %	0.93 %	23°C / 50% RH; ISO 62
	0.64 %	0.64 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	211 MPa	30600 psi	Type I, 5 mm/min; ASTM D 638
	214 MPa	31000 psi	ASTM D 638
	220 MPa	31900 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
	2.1 %	2.1 %	ASTM D 638
Tensile Modulus	14.24 GPa	2065 ksi	5 mm/min; ASTM D 638
	14.75 GPa	2139 ksi	1 mm/min; ISO 527
	15.9 GPa	2310 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
	310 MPa	45000 psi	ISO 178
	330 MPa	47900 psi	ASTM D 790
Flexural Yield Strength	306 MPa	44400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	11.3 GPa	1640 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	11.83 GPa	1716 ksi	2 mm/min; ISO 178
	13.67 GPa	1983 ksi	ASTM D 790
Izod Impact, Notched	2.22 J/cm @Temperature 23.0 °C	4.16 ft-lb/in @Temperature 73.4 °F	ASTM D 256
	2.67 J/cm @Temperature 23.0 °C	5.00 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	11.8 J/cm @Temperature 23.0 °C	22.1 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
	14.75 J/cm @Temperature 23.0 °C	27.63 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	27.0 kJ/m ² @Temperature 23.0 °C	12.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/m ² @Temperature 23.0 °C	35.7 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	8.80 J/cm ² @Temperature 23.0 °C	41.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/2C
Charpy Impact, Notched	2.40 J/cm ² @Temperature 23.0 °C	11.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/2C
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.0 µm/m-°C @Temperature -30.0 -	18.3 µin/in-°F @Temperature -22.0 -	ASTM D 696

Thermal Properties	30.0 °C Metric	86.0 °F English	Comments
CTE, linear, Transverse to Flow	61.0 µm/m-°C @Temperature -30.0 - 30.0 °C	33.9 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	255 °C	491 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 °C @Thickness 3.20 mm	493 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	249 °C @Thickness 3.20 mm	480 °F @Thickness 0.126 in	unannealed; ASTM D 648
	251 °C @Thickness 3.20 mm	484 °F @Thickness 0.126 in	unannealed; ASTM D 648

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