

SABIC Innovative Plastics LNP VERTON RX10409D PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* VERTON* RX10409D is a compound based on Nylon 66 containing proprietary fillers. Added feature of this grade is: Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RX10409D-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Moisture Absorption	0.660 %	0.660 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Time 86400 sec	0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Time 86400 sec	0.0080 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	199 MPa	28900 psi	5 mm/min; ISO 527
	203 MPa	29400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.8 GPa	1710 ksi	1 mm/min; ISO 527
	12.02 GPa	1743 ksi	5 mm/min; ASTM D638
Flexural Strength	285 MPa	41300 psi	ISO 178
	302 MPa	43800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	305 MPa	44200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.34 GPa	1500 ksi	2 mm/min; ISO 178
	11.1 GPa	1610 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.65 J/cm	4.96 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	76.0 kJ/m ²	36.2 ft-lb/in ²	80*10*4; ISO 180/1U
Charpy Impact Unnotched	8.80 J/cm ²	41.9 ft-lb/in ²	ISO 179/2C
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179/2C
Dart Drop, Total Energy	22.0 J @Temperature 23.0 °C	16.2 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 µm/m-°C @Temperature -40.0 - 40.0 °C	12.2 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	64.0 µm/m-°C @Temperature -40.0 - 40.0 °C	35.6 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	258 °C	496 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	258 °C @Thickness 3.20 mm	496 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	253 °C	487 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	253 °C @Thickness 3.20 mm	487 °F @Thickness 0.126 in	unannealed; ASTM D648

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