

SABIC Innovative Plastics LNP LUBRILOY RF203XXH PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRILOY* RF203XXH is a compound based on Nylon 66 resin containing 15% Glass Fiber, Proprietary Lubricant. Added features of this material include: Wear Resistant, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-RF203XXH-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
	1.13 g/cc	0.0408 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	Type I, 5 mm/min; ASTM D638
	90.0 MPa	13100 psi	5 mm/min; ISO 527
Elongation at Break	3.7 %	3.7 %	Type I, 5 mm/min; ASTM D638
	3.8 %	3.8 %	5 mm/min; ISO 527
Tensile Modulus	4.89 GPa	709 ksi	5 mm/min; ASTM D638
Flexural Strength	128 MPa	18600 psi	1.3 mm/min, 50 mm span; ASTM D790
	140 MPa	20300 psi	ISO 178
Flexural Modulus	4.18 GPa	606 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.50 GPa	798 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.830 J/cm	1.55 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.46 J/cm	12.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.30	0.30	ASTM D3702 Modified
K (wear) Factor	141 x 10 ⁻⁸ mm ³ /N-M	70.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	232 Â°C	450 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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