

SABIC Innovative Plastics LNP LUBRILOY RF203AXH PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRILOY* RF203AXH 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-RF203AXH-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.600 %	0.600 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	5 mm/min; ISO 527
	93.0 MPa	13500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.3 %	3.3 %	5 mm/min; ISO 527
	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.04 GPa	731 ksi	5 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	1.3 mm/min, 50 mm span; ASTM D790
	133 MPa	19300 psi	ISO 178
Flexural Yield Strength	136 MPa	19700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.12 GPa	598 ksi	2 mm/min; ISO 178
	4.29 GPa	622 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.980 J/cm	1.84 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.37	0.37	ASTM D3702 Modified
Coefficient of Friction, Static	0.40	0.40	ASTM D3702 Modified
K (wear) Factor	6.04 x 10 ⁻⁸ mm ³ /N-M	3.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	88.6 x 10 ⁻⁸ mm ³ /N-M	44.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	1.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	0.556 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	244 Â°C	471 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	252 Â°C @Thickness 3.20 mm	486 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	201 Â°C	394 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/af
	238 Â°C @Thickness 3.20 mm	460 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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