

SABIC Innovative Plastics LNP LUBRILOY RA2 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRILOY* RA2 is a compound based on Nylon 66 resin containing Aramid Fiber. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-RA2-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.89 GPa	999 ksi	5 mm/min; ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	1.3 mm/min, 50 mm span; ASTM D790
Compressive Strength	68.0 MPa	9860 psi	SABIC Method
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm	11.0 ft-lb/in	ASTM D4812
Coefficient of Friction, Dynamic	0.66	0.66	ASTM D3702 Modified
Coefficient of Friction, Static	0.41	0.41	ASTM D3702 Modified
K (wear) Factor	10.1 x 10 ⁻⁸ mm ³ /N-M	5.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
	4.00 Åµm/m-Å°C	2.22 Åµin/in-Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@ Temperature -30.0 - 30.0 Â°C	@ Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	6.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.33 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C @Thickness 3.20 mm	219 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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