

SABIC Innovative Plastics LNP LUBRICOMP RFL159 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL159 is a compound based on Nylon 66 resin containing 25% Glass Fiber, 5% PTFE. Added features of this material include: Wear Resistant, Flame Retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL159-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Density	1.62 g/cc	0.0585 lb/in ³	ASTM D792
Moisture Absorption	0.320 %	0.320 %	50% RH, 24 hrs; ASTM D570
	0.490 %	0.490 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.030 cm/cm	0.0090 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	149 MPa	21600 psi	5 mm/min; ISO 527
	153 MPa	22200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	149 MPa	21600 psi	5 mm/min; ISO 527
	153 MPa	22200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.91 GPa	1582 ksi	1 mm/min; ISO 527
	11.28 GPa	1636 ksi	50 mm/min; ASTM D638
Flexural Strength	210 MPa	30500 psi	ISO 178
	215 MPa	31200 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	215 MPa	31200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.51 GPa	1380 ksi	2 mm/min; ISO 178
	9.70 GPa	1410 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.790 J/cm	1.48 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.39 J/cm	13.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 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	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.47	0.47	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
	72.5 x 10 ⁻⁸ mm ³ /N-M	36.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	254 Â°C	489 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	257 Â°C @Thickness 3.20 mm	495 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	238 Â°C	460 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	244 Â°C @Thickness 3.20 mm	471 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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