

## SABIC Innovative Plastics LNP LUBRILLOY RF206 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRILLOY\* RF206 is a compound based on Nylon 66 resin containing 30% Glass Fiber, Proprietary Lubricant, Added features of this material includes: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRILLOY-RF206-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILLOY-RF206-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.380 %	0.380 %	50% RH, 24 hrs; ASTM D570
	0.660 %	0.660 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	118 MPa	17100 psi	5 mm/min; ISO 527
	121 MPa	17500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.46 GPa	1230 ksi	1 mm/min; ISO 527
	8.76 GPa	1270 ksi	5 mm/min; ASTM D638
Flexural Strength	167 MPa	24200 psi	ISO 178
	173 MPa	25100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.06 GPa	1020 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.20 GPa	1040 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.14 J/cm	2.14 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.90 J/cm	12.9 ft-lb/in	ASTM D4812

Izod Impact Notched (ISO) Mechanical Properties	9.00 kJ/m <sup>2</sup> Metric	4.28 ft-lb/in <sup>2</sup> English	80*10*4; ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	35.0 kJ/m <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D3702 Modified
Coefficient of Friction, Static	0.40	0.40	ASTM D3702 Modified
K (wear) Factor	90.6 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	45.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	75.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	252 Â°C	486 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	258 Â°C @Thickness 3.20 mm	496 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	224 Â°C	435 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 Â°C @Thickness 3.20 mm	466 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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