

## SABIC Innovative Plastics LNP LUBRILOY RF208 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRILOY\* RF208 is a compound based on Nylon 66 resin containing 40% Glass Fiber, Proprietary Lubricant. Added features of this material include: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRILOY-RF208-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-RF208-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ASTM D792
	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.270 %	0.270 %	50% RH, 24 hrs; ASTM D570
	0.400 %	0.400 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0041 cm/cm	0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0108 cm/cm	0.0108 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	136 MPa	19700 psi	ISO 527
	139 MPa	20200 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
	2.7 %	2.7 %	ISO 527
Tensile Modulus	10.5 GPa	1520 ksi	1 mm/min; ISO 527
	12.34 GPa	1790 ksi	50 mm/min; ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
	211 MPa	30600 psi	ISO 178

Flexural Modulus Mechanical Properties	9.03 GPa Metric	1310 ksi English	ASTM D790 Comments
	11.3 GPa	1640 ksi	ISO 178
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.20 J/cm	13.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.29	0.29	ASTM D3702 Modified
K (wear) Factor	109 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	54.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	238 °C	460 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 °C @Thickness 3.20 mm	466 °F @Thickness 0.126 in	unannealed; ASTM D648

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