

SABIC Innovative Plastics LNP LUBRILOY RF203 PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRILOY* RF203 is a compound based on PA 66 resin containing Glass Fiber, Proprietary Lubricant. Added features include:
Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-RF203-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Water Absorption	0.37 % @Time 86400 sec	0.37 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	99.0 MPa	14400 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	5.30 GPa	769 ksi	1 mm/min; ISO 527
Flexural Strength	122 MPa	17700 psi	2 mm/min; ISO 178
Flexural Yield Strength	133 MPa	19300 psi	2 mm/min; ISO 178
Flexural Modulus	4.10 GPa	595 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.30	0.30	ASTM D3702 Modified
K (wear) Factor	141 x 10 ⁻⁸ mm ³ /N-M	70.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.0 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	22.8 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2

Thermal Properties	131 Åum/m-Å°C Metric	72.8 Åuin/in-Å°F English	Comments
CTE, linear, transverse to Flow	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	245 Å°C	473 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	185 Å°C	365 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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