

## SABIC Innovative Plastics LNP LUBRICOMP RFN169 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* LUBRICOMP\* RFN169 is a compound based on Nylon 66 containing 30% Glass Fiber, 5% MOS2. Added features of this grade include:  
Wear Resistant, Flame Retardant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFN169-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFN169-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.68 g/cc	1.68 g/cc	ASTM D792
Density	1.67 g/cc	0.0603 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.570 %	0.570 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	5 mm/min; ISO 527
	194 MPa	28100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	14.04 GPa	2036 ksi	1 mm/min; ISO 527
	14.16 GPa	2054 ksi	50 mm/min; ASTM D638
Flexural Strength	263 MPa	38100 psi	1.3 mm/min, 50 mm span; ASTM D790
	266 MPa	38600 psi	ISO 178
Flexural Modulus	12.12 GPa	1758 ksi	2 mm/min; ISO 178
	12.3 GPa	1780 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.05 J/cm	1.97 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	8.69 J/cm Metric	16.2 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	51.0 kJ/m <sup>2</sup>	24.3 ft-lb/in <sup>2</sup>	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	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.41	0.41	ASTM D3702 Modified
K (wear) Factor	12.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	6.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	1010 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	503 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	28.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	15.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	76.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	257 Â°C	495 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)	242 Â°C	468 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	248 Â°C @Thickness 3.20 mm	478 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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