

**SABIC Innovative Plastics LNP LUBRICOMP RL0049S PA 66**

Category : Polymer , Thermoplastic , Nylon , Nylon 66

**Material Notes:**

LNP LUBRICOMP\* RL0049S is a compound based on Nylon 66 resin containing 20% PTFE. Added features of this material include: Flame Retardant, Heat Stabilized, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL0049S-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL0049S-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.380 %	0.380 %	50% RH, 24 hrs; ASTM D570
	0.550 %	0.550 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0152 cm/cm	0.0152 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0167 cm/cm	0.0167 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527
	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	3.16 GPa	458 ksi	1 mm/min; ISO 527
	3.17 GPa	460 ksi	50 mm/min; ASTM D638
Flexural Strength	77.0 MPa	11200 psi	ASTM D790
	78.0 MPa	11300 psi	ISO 178
Flexural Modulus	2.97 GPa	431 ksi	ISO 178

Mechanical Properties	3.09 GPa Metric	448 ksi English	ASTM D790 Comments
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.70 J/cm	3.18 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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