

## SABIC Innovative Plastics LNP LUBRICOMP RL0019 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRICOMP\* RL0019 is a compound based on Nylon 66 resin containing 5% PTFE. Added features of this material include: Flame Retardant, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL0019-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL0019-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ASTM D792
	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.460 %	0.460 %	50% RH, 24 hrs; ASTM D570
	0.700 %	0.700 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0189 cm/cm	0.0189 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.019 cm/cm	0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0196 cm/cm	0.0196 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.020 cm/cm	0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	ISO 527
	68.0 MPa	9860 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ISO 527
	2.8 %	2.8 %	ASTM D638
Tensile Modulus	3.41 GPa	495 ksi	50 mm/min; ASTM D638
	3.64 GPa	528 ksi	1 mm/min; ISO 527
Flexural Strength	103 MPa	14900 psi	ISO 178
	109 MPa	15800 psi	ASTM D790

Flexural Modulus Mechanical Properties	3.27 GPa Metric	474 ksi English	ISO 178 Comments
	3.44 GPa	499 ksi	ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.31 J/cm	6.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	1.00 J	0.738 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.9 Åµm/m-Å°C	37.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	66.9 Åµm/m-Å°C	37.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	70.5 Åµm/m-Å°C	39.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	70.5 Åµm/m-Å°C	39.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Å°C	192 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af  unannealed; ASTM D648
	105 Å°C  @Thickness 3.20 mm	221 Å°F  @Thickness 0.126 in	

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