

## SABIC Innovative Plastics LNP LUBRICOMP RAL22 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRICOMP\* RAL22 is a compound based on Nylon 66 resin containing 10% PTFE, 10% Aramid. Added features of this material include: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RAL22-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RAL22-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.720 %	0.720 %	50% RH, 24 hrs; ASTM D570
	1.17 %	1.17 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0192 cm/cm	0.0192 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0195 cm/cm	0.0195 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	79.0 MPa	11500 psi	ISO 527
	81.0 MPa	11700 psi	ASTM D638
Elongation at Break	8.1 %	8.1 %	ASTM D638
	9.5 %	9.5 %	ISO 527
Tensile Modulus	3.44 GPa	499 ksi	50 mm/min; ASTM D638
	3.50 GPa	508 ksi	1 mm/min; ISO 527
Flexural Strength	113 MPa	16400 psi	ASTM D790
	117 MPa	17000 psi	ISO 178

Flexural Modulus Mechanical Properties	2.96 GPa Metric	429 ksi English	ASTM D790 Comments
	3.50 GPa	508 ksi	ISO 178
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.42 J/cm	13.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m <sup>2</sup>	22.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.54	0.54	ASTM D3702 Modified
Coefficient of Friction, Static	0.45	0.45	ASTM D3702 Modified
K (wear) Factor	26.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	13.0 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	72.0 Åµm/m-Å°C	40.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	73.6 Åµm/m-Å°C	40.9 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	81.0 Åµm/m-Å°C	45.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	82.6 Åµm/m-Å°C	45.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	248 Å°C	478 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	193 Å°C	379 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf
	198 Å°C	388 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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