

SABIC Innovative Plastics LNP LUBRICOMP RAL22I PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RAL22I is a compound based on Nylon 66 resin containing 10% PTFE, 10% Aramid Fiber. Added features of this material include: Wear Resistant, High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RAL22I-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Moisture Absorption	0.570 %	0.570 %	50% RH, 24 hrs; ASTM D570
	0.910 %	0.910 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	5 mm/min; ISO 527
	73.0 MPa	10600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.6 %	8.6 %	Type I, 5 mm/min; ASTM D638
	8.6 %	8.6 %	5 mm/min; ISO 527
Elongation at Yield	8.3 %	8.3 %	Type I, 5 mm/min; ASTM D638
	8.3 %	8.3 %	5 mm/min; ISO 527
Tensile Modulus	3.43 GPa	497 ksi	1 mm/min; ISO 527
	3.51 GPa	509 ksi	50 mm/min; ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	3.22 GPa	467 ksi	2 mm/min; ISO 178
	3.29 GPa	477 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties <i>Izod Impact, Notched</i>	Metric <i>0.510 J/cm</i>	English <i>0.125 ft-lb/in</i>	Comments <i>ASTM D256</i>
Izod Impact, Unnotched	6.02 J/cm	11.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	41.0 kJ/m ²	19.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.33	0.33	ASTM D3702 Modified
Coefficient of Friction, Static	0.26	0.26	ASTM D3702 Modified
K (wear) Factor	24.2 x 10 ⁻⁸ mm ³ /N-M	12.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	83.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	239 Â°C	462 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	243 Â°C @Thickness 3.20 mm	469 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	114 Â°C	237 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	156 Â°C @Thickness 3.20 mm	313 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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