

SABIC Innovative Plastics LNP LUBRICOMP RL004 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RL004 is a copmpound based on Nylon 66 resin containing 20% PTFE. Added feature of this grade includes: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL004-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183
	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	0.790 %	0.790 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	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	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	56	56	ASTM D785
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	69.0 MPa	10000 psi	5 mm/min; ISO 527
	71.0 MPa	10300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	69.0 MPa	10000 psi	5 mm/min; ISO 527
	71.0 MPa	10300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.7 %	6.7 %	Type I, 5 mm/min; ASTM D638
	7.9 %	7.9 %	5 mm/min; ISO 527
Elongation at Yield	6.3 %	6.3 %	Type I, 5 mm/min; ASTM D638
	7.7 %	7.7 %	5 mm/min; ISO 527
Tensile Modulus	3.05 GPa	442 ksi	1 mm/min; ISO 527
	3.20 GPa	464 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric ^{MPa}	English ^{ksi}	Comments
Flexural Modulus	2.68 GPa	389 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.72 GPa	395 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.97 J/cm	11.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	36.0 kJ/m ²	17.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.32	0.32	ASTM D3702 Modified
Coefficient of Friction, Static	0.21	0.21	ASTM D3702 Modified
K (wear) Factor	32.2 x 10 ⁻⁸ mm ³ /N-M	16.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	88.0 Âµm/m-Â°C	48.9 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	201 Â°C	394 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	239 Â°C	462 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Â°C	154 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	71.0 Â°C	160 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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