

SABIC Innovative Plastics LNP LUBRICOMP RP004 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Lubricomp* RP004 is a compound based on Nylon 66 resin containing PTFE, Silicone. Added features of this material include:
Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RP004-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption	0.800 %	0.800 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ASTM D638
	63.0 MPa	9140 psi	ISO 527
Tensile Strength, Yield	63.0 MPa	9140 psi	ISO 527
Elongation at Break	22.5 %	22.5 %	ASTM D638
	26.6 %	26.6 %	ISO 527
Elongation at Yield	22 %	22 %	ASTM D638
	26 %	26 %	ISO 527
Tensile Modulus	2.73 GPa	396 ksi	1 mm/min; ISO 527
	2.75 GPa	399 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	82.0 MPa Metric	11900 psi English	ISO 178 Comments
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.47 J/cm	6.50 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)	88.0 kJ/m ²	41.9 ft-lb/in ²	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	0.19	0.19	ASTM D3702 Modified
Coefficient of Friction, Static	0.040	0.040	ASTM D3702 Modified
K (wear) Factor	6.04 x 10 ⁻⁸ mm ³ /N-M	3.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.6 Åµm/m-Å°C	52.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	94.0 Åµm/m-Å°C	52.2 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	82.8 Åµm/m-Å°C	46.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	200 Å°C	392 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	237 Å°C	459 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 Å°C	145 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	63.0 Å°C	145 Å°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D648
Comments

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China