

SABIC Innovative Plastics LNP LUBRICOMP RP003 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Lubricomp* RP003 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-RP003-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
	55.0 MPa	7980 psi	ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
Elongation at Break	4.7 %	4.7 %	ASTM D638
	4.7 %	4.7 %	ISO 527
Elongation at Yield	4.6 %	4.6 %	ASTM D638
	4.7 %	4.7 %	ISO 527
Tensile Modulus	2.75 GPa	399 ksi	50 mm/min; ASTM D638
	2.96 GPa	429 ksi	1 mm/min; ISO 527
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.79 J/cm	7.10 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)			80*10*4; ISO 180/1U

Mechanical Properties	26.0 kJ/m ² Metric	12.4 ft-lb/in ² English	Comments
Dart Drop, Total Energy	1.00 J	0.738 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.22	0.22	ASTM D3702 Modified
Coefficient of Friction, Static	0.16	0.16	ASTM D3702 Modified
K (wear) Factor	20.1 x 10 ⁻⁸ mm ³ /N-M	10.0 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 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	91.0 Åµm/m-Å°C	50.6 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	95.4 Åµm/m-Å°C	53.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	96.0 Åµm/m-Å°C	53.3 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)	221 Å°C	430 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	201 Å°C	394 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	66.0 Å°C	151 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	59.0 Å°C	138 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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