

SABIC Innovative Plastics LNP LUBRICOMP RX05487 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RX05487 is a compound based on Nylon 66 containing 10% Aramid Fiber, 10% Lubricant. Added features of this material are: Low Warpage, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RX05487-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Moisture Absorption	0.730 %	0.730 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	23°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
Tensile Strength at Break	79.0 MPa	11500 psi	5 mm/min; ISO 527
	81.0 MPa	11700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	79.0 MPa	11500 psi	5 mm/min; ISO 527
	81.0 MPa	11700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.3 %	8.3 %	Type I, 5 mm/min; ASTM D638
	8.9 %	8.9 %	5 mm/min; ISO 527
Elongation at Yield	8.2 %	8.2 %	Type I, 5 mm/min; ASTM D638
	8.9 %	8.9 %	5 mm/min; ISO 527
Tensile Modulus	3.62 GPa	525 ksi	1 mm/min; ISO 527
	3.71 GPa	538 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	102 MPa	14800 psi	2 mm/min; ISO 178
Flexural Modulus	3.27 GPa	474 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 3.32 GPa	English 480 ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.24 J/cm	9.82 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)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.35	0.35	ASTM D3702 Modified
K (wear) Factor	34.2 x 10 ⁻⁸ mm ³ /N-M	17.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.7 Åµm/m-Å°C	37.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	76.2 Åµm/m-Å°C	42.3 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)	235 Å°C	455 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	116 Å°C	241 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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