

SABIC Innovative Plastics LNP LUBRICOMP RAP22 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RAP22 is a compound based on Nylon 66 resin containing 10% Aramid, 10% PTFE/Silicone. 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-RAP22-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.710 %	0.710 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	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	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
	71.0 MPa	10300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
	71.0 MPa	10300 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	6.0 %	6.0 %	5 mm/min; ISO 527
Elongation at Yield	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	5.9 %	5.9 %	5 mm/min; ISO 527
Tensile Modulus	3.39 GPa	492 ksi	50 mm/min; ASTM D638
	3.42 GPa	496 ksi	1 mm/min; ISO 527
Flexural Strength	103 MPa	14900 psi	ISO 178
Flexural Modulus	3.25 GPa	471 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.290 J/cm	0.543 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.42 J/cm	6.41 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)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.37	0.37	ASTM D3702 Modified
Coefficient of Friction, Static	0.26	0.26	ASTM D3702 Modified
K (wear) Factor	46.3 x 10 ⁻⁸ mm ³ /N-M	23.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	27.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	224 Â°C	435 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C	212 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	189 Â°C @Thickness 3.20 mm	372 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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