

SABIC Innovative Plastics LNP LUBRICOMP RX85514 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RX85514 is a compound based on Nylon 66 resin containing Proprietary Filler(s). 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-RX85514-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Moisture Absorption	0.610 %	0.610 %	50% RH, 24 hrs; ASTM D570
	0.930 %	0.930 %	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
Tensile Strength at Break	78.0 MPa	11300 psi	5 mm/min; ISO 527
	79.0 MPa	11500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	7.2 %	7.2 %	Type I, 5 mm/min; ASTM D638
	7.4 %	7.4 %	5 mm/min; ISO 527
Elongation at Yield	7.3 %	7.3 %	5 mm/min; ISO 527
	3.70 GPa	537 ksi	50 mm/min; ASTM D638
Tensile Modulus	3.82 GPa	554 ksi	1 mm/min; ISO 527
	109 MPa	15800 psi	ISO 178
Flexural Modulus	3.32 GPa	482 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.56 GPa	516 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.16 J/cm	9.67 ft-lb/in	ASTM D4812

Mechanical Properties <i>Mod Impact, Notched (ISO)</i>	Metric <i>1.00 kJ/m²</i>	English <i>1.00 ft-lb/in²</i>	Comments <i>80-10-4, ISO 180/1A</i>
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.38	0.38	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	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	63.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	35.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	76.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	228 Â°C	442 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	247 Â°C @Thickness 3.20 mm	477 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	112 Â°C	234 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	117 Â°C @Thickness 3.20 mm	243 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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