

SABIC Innovative Plastics LNP Lubricomp RP0049 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE Filled

Material Notes:

LNP LUBRICOMP* RP0049 is a compound based on Nylon 66 resin containing Flame Retardant, PTFE, Silicone. Added features of this material include: Flame Retardant. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-RP0049-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D 792
	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.47 %	0.47 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.020 cm/cm	0.020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0194 cm/cm	0.0194 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	ISO 527
	41.0 MPa	5950 psi	ASTM D 638
Elongation at Break	2.7 %	2.7 %	ASTM D 638
	3.3 %	3.3 %	ISO 527
Tensile Modulus	2.48 GPa	360 ksi	50 mm/min; ASTM D 638
	2.50 GPa	363 ksi	1 mm/min; ISO 527
Flexural Strength	67.0 MPa	9720 psi	ASTM D 790
	68.0 MPa	9860 psi	ISO 178
Flexural Modulus	2.27 GPa	329 ksi	ASTM D 790

Mechanical Properties	Metric 2.40 GPa	English 348 ksi	Comments ISO 178
Izod Impact, Notched	0.210 J/cm @Temperature 23.0 Â°C	0.393 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.13 J/cm @Temperature 23.0 Â°C	3.99 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/mÂ² @Temperature 23.0 Â°C	7.14 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.18	0.18	ASTM D 3702 Modified
Coefficient of Friction, Static	0.13	0.13	ASTM D 3702 Modified
K (wear) Factor	12.1 x 10 ⁻⁸ mmÂ³/N-M	6.00 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	168 Â°C @Thickness 3.20 mm	334 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C	212 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 Â°C @Thickness 3.20 mm	176 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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