

SABIC Innovative Plastics LNP Lubricomp RL0049 PA 66

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

Material Notes:

LNP* Lubricomp* RL0049 is a compound based on Nylon 66 resin containing PTFE, Flame Retardant. Added features of this material include: Internally Lubricated, 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-RL0049-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Time 86400 sec	0.015 in/in @Time 24.0 hour	ASTM D 955
	0.0152 cm/cm @Time 86400 sec	0.0152 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0167 cm/cm @Time 86400 sec	0.0167 in/in @Time 24.0 hour	ISO 294
	0.017 cm/cm @Time 86400 sec	0.017 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D 638
	46.0 MPa	6670 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.2 %	2.2 %	ASTM D 638
Tensile Modulus	3.16 GPa	458 ksi	1 mm/min; ISO 527
	3.17 GPa	460 ksi	50 mm/min; ASTM D 638
Flexural Strength	75.0 MPa	10900 psi	ASTM D 790
	79.0 MPa	11500 psi	ISO 178
Flexural Modulus	2.97 GPa	431 ksi	ISO 178
	3.09 GPa	448 ksi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.210 J/cm @Temperature 23.0 Â°C	0.995 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	1.60 J/cm @Temperature 23.0 Â°C	3.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	2.00 kJ/mÂ² @Temperature 23.0 Â°C	0.952 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	1.00 J @Temperature 23.0 Â°C	0.738 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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