

SABIC Innovative Plastics LNP Lubriloy RF206H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRILLOY* RF206H is a compound based on Nylon 66 resin containing Glass Fiber, Proprietary Lubricant, Lubricants. Added features of this material include: Internally Lubricated. 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-Lubriloy-RF206H-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D 792
	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.35 %	0.35 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0032 - 0.0044 cm/cm	0.0032 - 0.0044 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.012 cm/cm	0.011 - 0.012 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0109 - 0.0124 cm/cm	0.0109 - 0.0124 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	121 MPa	17500 psi	ISO 527
	122 MPa	17700 psi	ASTM D 638
Elongation at Break	2.6 %	2.6 %	ASTM D 638
	2.7 %	2.7 %	ISO 527
Tensile Modulus	8.20 GPa	1190 ksi	1 mm/min; ISO 527
	8.89 GPa	1290 ksi	50 mm/min; ASTM D 638
Flexural Strength	178 MPa	25800 psi	ASTM D 790
	192 MPa	27800 psi	ISO 178
Flexural Modulus	6.82 GPa	989 ksi	ASTM D 790

Mechanical Properties	Metric SI Units	English US Units	Comments ISO 178
Izod Impact, Notched	1.22 J/cm @Temperature 23.0 °C	2.29 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	7.58 J/cm @Temperature 23.0 °C	14.2 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ² @Temperature 23.0 °C	22.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	12.0 J @Temperature 23.0 °C	8.85 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.62	0.62	ASTM D 3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D 3702 Modified
K (wear) Factor	58.4 x 10 ⁻⁸ mm ³ /N-M	29.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.7 µm/m-°C @Temperature -40.0 - 40.0 °C	20.4 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	36.9 µm/m-°C @Temperature -40.0 - 40.0 °C	20.5 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	69.1 µm/m-°C @Temperature -40.0 - 40.0 °C	38.4 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	69.1 µm/m-°C @Temperature -40.0 - 40.0 °C	38.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa	258 °C	496 °F	

Thermal Properties <small>(56 psi)</small>	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments <small>unannealed; ASTM D 648</small>
Deflection Temperature at 1.8 MPa (264 psi)	238 Â°C	460 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 Â°C @Thickness 3.20 mm	466 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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