

SABIC Innovative Plastics LNP LUBRILLOY RF206XXH PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRILLOY* RF206H is a compound based on Nylon 66 resin containing 30% Glass Fiber, Proprietary Lubricant. Added features of this material include: Wear Resistant, Healthcare

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILLOY-RF206XXH-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption	0.350 %	0.350 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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 D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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 D638
Elongation at Break	2.6 %	2.6 %	ASTM D638
	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 D638
Flexural Strength	178 MPa	25800 psi	ASTM D790
	192 MPa	27800 psi	ISO 178
Flexural Modulus	6.82 GPa	989 ksi	ASTM D790

Mechanical Properties	8.50 GPa Metric	1230 ksi English	ISO 178 Comments
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.58 J/cm	14.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.62	0.62	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 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 D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.7 Åµm/m-Å°C	20.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	36.9 Åµm/m-Å°C	20.5 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	69.1 Åµm/m-Å°C	38.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	69.1 Åµm/m-Å°C	38.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	258 Å°C	496 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	238 Å°C	460 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 Å°C	466 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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