

SABIC Innovative Plastics LNP LUBRICOMP EX03647H PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP LUBRICOMP* EX03647H is a compound based on Polyetherimide resin containing Proprietary Fillers. Added features of this material include: Healthcare, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EX03647H-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	5 mm/min; ISO 527
	208 MPa	30200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	18.3 GPa	2650 ksi	1 mm/min; ISO 527
	19.14 GPa	2776 ksi	5 mm/min; ASTM D638
Flexural Strength	284 MPa	41200 psi	ISO 178
	301 MPa	43700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	16.94 GPa	2457 ksi	2 mm/min; ISO 178
	17.5 GPa	2540 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	3.93 J/cm Metric	7.36 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.31	0.31	ASTM D3702 Modified
Coefficient of Friction, Static	0.29	0.29	ASTM D3702 Modified
K (wear) Factor	26.2 x 10 ⁻⁸ mm ³ /N-M	13.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	4.44 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	29.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	213 Â°C	415 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	213 Â°C @Thickness 3.20 mm	415 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	209 Â°C	408 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	209 Â°C @Thickness 3.20 mm	408 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China