

SABIC Innovative Plastics LNP LUBRICOMP LL002 PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP* LUBRICOMP* LL002 is a compound based on Polyetheretherketone containing 10% PTFE. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LL002-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	5 mm/min; ISO 527
	79.0 MPa	11500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	76.0 MPa	11000 psi	5 mm/min; ISO 527
	77.0 MPa	11200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	17.8 %	17.8 %	5 mm/min; ISO 527
	52 %	52 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	5 mm/min; ISO 527
	5.3 %	5.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.28 GPa	476 ksi	1 mm/min; ISO 527
	3.33 GPa	483 ksi	50 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	ISO 178
Flexural Modulus	3.07 GPa	445 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 3.12 GPa	English 450 ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	0.840 J/cm	1.57 ft-lb/in	ASTM D256
Izod Impact, Unnotched	29.9 J/cm	56.0 ft-lb/in	ASTM D4812
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)	158 kJ/m ²	75.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.39	0.39	ASTM D3702 Modified
Coefficient of Friction, Static	0.35	0.35	ASTM D3702 Modified
K (wear) Factor	42.3 x 10 ⁻⁸ mm ³ /N-M	21.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	155 Â°C	311 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	166 Â°C @Thickness 3.20 mm	331 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 Â°C	300 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	149 Â°C @Thickness 3.20 mm	300 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