

SABIC Innovative Plastics LNP Lubricomp LFL36 PEEK

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

Material Notes:

LNP* Lubricomp* LFL36 is a compound based on PEEK containing Glass Fiber and PTFE. 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-LFL36-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ASTM D 792
	1.63 g/cc	0.0589 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	116 MPa	16800 psi	5 mm/min; ISO 527
	144 MPa	20900 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	116 MPa	16800 psi	5 mm/min; ISO 527
	144 MPa	20900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.43 GPa	1658 ksi	1 mm/min; ISO 527
	12.96 GPa	1880 ksi	50 mm/min; ASTM D 638
Flexural Strength	187 MPa	27100 psi	ISO 178
	191 MPa	27700 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	193 MPa	28000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	9.97 GPa	1450 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	10.35 GPa	1501 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.05 J/cm @Temperature 23.0	1.97 ft-lb/in	ASTM D 256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	6.66 J/cm @Temperature 23.0 Â°C	12.5 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Impact Test	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D 3702 Modified
Coefficient of Friction, Static	0.59	0.59	ASTM D 3702 Modified
K (wear) Factor	12.1 x 10 ⁻⁸ mmÂ³/N-M	6.00 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Ring; ASTM D 3702 Modified
	88.6 x 10 ⁻⁸ mmÂ³/N-M	44.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	31.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	331 Â°C	628 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	329 Â°C @Thickness 3.20 mm	624 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	296 Â°C	565 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	300 Â°C @Thickness 3.20 mm	572 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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