

SABIC Innovative Plastics LNP LUBRICOMP LFL36E PEEK

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

Material Notes:

LNP* LUBRICOMP* LFL36E is a compound based on Polyetheretherketone containing 30% Glass Fiber, 15% PTFE. Added features of this material are: Wear Resistant, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LFL36E-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	Type I, 5 mm/min; ASTM D638
	177 MPa	25700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	176 MPa	25500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.24 GPa	1775 ksi	1 mm/min; ISO 527
Flexural Strength	263 MPa	38100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.36 GPa	1648 ksi	2 mm/min; ISO 178
	11.7 GPa	1700 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.03 J/cm	1.93 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.61 J/cm	16.1 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.49	0.49	ASTM D3702 Modified
Coefficient of Friction, Static	0.73	0.73	ASTM D3702 Modified
K (wear) Factor	18.1 x 10 ⁻⁸ mm ³ /N-M	9.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
CTE, linear, Transverse to Flow	36.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	337 $\text{Å}^\circ\text{C}$	639 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	339 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	642 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	322 $\text{Å}^\circ\text{C}$	612 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	327 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	621 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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