

SABIC Innovative Plastics LNP LUBRICOMP LL004E PEEK

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

Material Notes:

LNP* LUBRICOMP* LL004E is a compound based on Polyetheretherketone resin containing 20% 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-LL004E-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	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0185 cm/cm	0.0185 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.0 MPa	10000 psi	ASTM D638
	69.0 MPa	10000 psi	ISO 527
Tensile Strength, Yield	73.0 MPa	10600 psi	ISO 527
	74.0 MPa	10700 psi	ASTM D638
Elongation at Break	11.8 %	11.8 %	ISO 527
	23.3 %	23.3 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ISO 527
	5.8 %	5.8 %	ASTM D638
Tensile Modulus	2.89 GPa	419 ksi	50 mm/min; ASTM D638

Mechanical Properties	3.06 GPa Metric	444 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	117 MPa	17000 psi	ASTM D790
	118 MPa	17100 psi	ISO 178
Flexural Modulus	2.96 GPa	429 ksi	ASTM D790
	3.32 GPa	482 ksi	ISO 178
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.48 J/cm	29.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	91.0 kJ/m ²	43.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.52	0.52	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 Modified
K (wear) Factor	258 x 10 ⁻⁸ mm ³ /N-M	128 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

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