

SABIC Innovative Plastics LNP LUBRICOMP LX91475 PEEK

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

Material Notes:

LNP* LUBRICOMP* LX91475 is a compound based on Polyetheretherketone resin containing proprietary fillers. Added features of this material include: Easy Molding, High Temperature Bearing Grade, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LX91475-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0800 %	0.0800 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 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	159 MPa	23100 psi	Type I, 5 mm/min; ASTM D638
	160 MPa	23200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	161 MPa	23400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	11.87 GPa	1722 ksi	1 mm/min; ISO 527
	12.36 GPa	1793 ksi	5 mm/min; ASTM D638
Flexural Strength	229 MPa	33200 psi	ISO 178
	239 MPa	34700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.32 GPa	1497 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	0.580 J/cm Metric	1.09 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	4.83 J/cm	9.05 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ²	14.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 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	0.34	0.34	ASTM D3702 Modified
Coefficient of Friction, Static	0.42	0.42	ASTM D3702 Modified
K (wear) Factor	4.03 x 10 ⁻⁸ mmÂ³/N-M	2.00 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Ring; ASTM D3702 Modified
	32.2 x 10 ⁻⁸ mmÂ³/N-M	16.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	10.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	42.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	23.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	335 Â°C	635 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	336 Â°C @Thickness 3.20 mm	637 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	335 Â°C	635 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	322 Â°C @Thickness 3.20 mm	612 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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