

SABIC Innovative Plastics LNP LUBRICOMP LX00430 PEEK

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

Material Notes:

LNP* LUBRICOMP* LX00430 is a compound based on Polyetheretherketone containing Proprietary Fillers. Added feature of this grade is:
Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LX00430-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.0800 %	0.0800 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
	76.0 MPa	11000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	77.0 MPa	11200 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	12.8 %	12.8 %	5 mm/min; ISO 527
	35 %	35 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.1 %	6.1 %	5 mm/min; ISO 527
	6.4 %	6.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.16 GPa	458 ksi	1 mm/min; ISO 527
	3.36 GPa	487 ksi	50 mm/min; ASTM D638
Flexural Strength	104 MPa	15100 psi	ISO 178
Flexural Modulus	2.89 GPa	419 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.5 J/cm	34.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	101 kJ/m ²	48.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 °C	3.69 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	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
CTE, linear, Parallel to Flow	54.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	30.0 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
CTE, linear, Transverse to Flow	59.7 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	33.2 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	158 Å°C	316 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	153 Å°C @Thickness 3.20 mm	307 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 Å°C	295 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	147 Å°C @Thickness 3.20 mm	297 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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