

SABIC Innovative Plastics LNP LUBRICOMP LL003 PEEK

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

Material Notes:

LNP* LUBRICOMP* LL003 is a compound based on Polyetheretherketone resin containing 15% PTFE Lubricant. 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-LL003-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.0800 %	0.0800 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm @Time 86400 sec	0.0090 - 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	5 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	5 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.3 %	3.3 %	5 mm/min; ISO 527
	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.3 %	3.3 %	5 mm/min; ISO 527
	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	50 mm/min; ASTM D638
	3.07 GPa	445 ksi	1 mm/min; ISO 527
Flexural Strength	92.0 MPa	13300 psi	ISO 178
Flexural Modulus	2.75 GPa	399 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.23 J/cm	13.5 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)	37.0 kJ/mÂ²	17.6 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.32	0.32	ASTM D3702 Modified
K (wear) Factor	36.3 x 10 ⁻⁸ mmÂ³/N-M	18.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	47.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	57.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	156 Â°C	313 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	156 Â°C @Thickness 3.20 mm	313 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	147 Â°C	297 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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