

SABIC Innovative Plastics LNP LUBRICOMP OL004 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* LUBRICOMP* OL004 is a compound based on PPS - Linear resin containing 20% PTFE. Added features of this grade include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OL004-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 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	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	4.6 %	4.6 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	4.6 %	4.6 %	5 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	50 mm/min; ASTM D638
	3.42 GPa	496 ksi	1 mm/min; ISO 527
Flexural Strength	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D790
	97.0 MPa	14100 psi	ISO 178
Flexural Yield Strength			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	96.0 MPa Metric	13900 psi English	D790 Comments
Flexural Modulus	2.84 GPa	412 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.88 GPa	418 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.48 J/cm	6.52 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.21	0.21	ASTM D3702 Modified
Coefficient of Friction, Static	0.080	0.080	ASTM D3702 Modified
K (wear) Factor	169 x 10 ⁻⁸ mm ³ /N-M	84.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	179 Â°C	354 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	129 Â°C	264 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	102 Â°C	216 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	99.0 Â°C	210 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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