

SABIC Innovative Plastics LNP LUBRICOMP OFL36 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* LUBRICOMP* OFL36 is a compound based on PPS - Linear resin containing 30% Glass Fiber, 15% 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-OFL36-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Moisture Absorption	0.0100 %	0.0100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0013 - 0.0018 cm/cm	0.0013 - 0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0048 cm/cm	0.0030 - 0.0048 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	121 MPa	17500 psi	5 mm/min; ISO 527
	124 MPa	18000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D638
	1.3 %	1.3 %	5 mm/min; ISO 527
Tensile Modulus	11.99 GPa	1739 ksi	1 mm/min; ISO 527
	12.8 GPa	1860 ksi	50 mm/min; ASTM D638
Flexural Strength	178 MPa	25800 psi	1.3 mm/min, 50 mm span; ASTM D790
	180 MPa	26100 psi	ISO 178
Flexural Modulus	11.05 GPa	1603 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric ^a	English ^d	Comments ^b
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.16 J/cm	7.79 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 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
	11.0 J @Temperature 23.0 Â°C	8.11 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	0.44	0.44	ASTM D3702 Modified
Coefficient of Friction, Static	0.35	0.35	ASTM D3702 Modified
K (wear) Factor	14.1 - 16.1 x 10 ⁻⁸ mm ³ /N-M	7.00 - 8.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	105 x 10 ⁻⁸ mm ³ /N-M	52.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.6 Âµm/m-Â°C	13.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
	23.4 - 50.0 Âµm/m-Â°C	13.0 - 27.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	34.0 Âµm/m-Â°C	18.9 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
	48.6 Âµm/m-Â°C	27.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	50.1 Âµm/m-Â°C	27.8 Âµin/in-Â°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ISO 11359-2 Comments
Deflection Temperature at 0.46 MPa (66 psi)	278 Â°C	532 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	278 Â°C @Thickness 3.20 mm	532 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	257 Â°C	495 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	264 Â°C @Thickness 3.20 mm	507 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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