

SABIC Innovative Plastics LNP LUBRICOMP OCL36 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP LUBRICOMP* OCL36 is a compound based on PPS - Linear resin containing 30% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCL36-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Moisture Absorption	0.0300 %	0.0300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00040 - 0.0010 cm/cm	0.00040 - 0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.00040 - 0.0010 cm/cm	0.00040 - 0.0010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0036 - 0.0040 cm/cm	0.0036 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	167 MPa	24200 psi	ISO 527
	168 MPa	24400 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ISO 527
	1.4 %	1.4 %	ASTM D638
Tensile Modulus	21.51 GPa	3120 ksi	50 mm/min; ASTM D638
	30.68 GPa	4450 ksi	1 mm/min; ISO 527
Flexural Strength	259 MPa	37600 psi	ASTM D790
	262 MPa	38000 psi	ISO 178
Flexural Modulus	21.11 GPa	3062 ksi	ASTM D790

Mechanical Properties	Metric 21.11 GPa	English 3032 ksi	Comments ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.43 J/cm	8.30 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	31.0 kJ/mÂ²	14.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.39	0.39	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D3702 Modified
K (wear) Factor	38.3 x 10 ⁻⁸ mmÂ³/N-M	19.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 Âµm/m-Â°C	9.00 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	17.6 Âµm/m-Â°C	9.78 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	34.2 Âµm/m-Â°C	19.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	34.4 Âµm/m-Â°C	19.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	263 Â°C	505 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	267 Â°C	513 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.80 mm	@Thickness 0.0709 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China