

SABIC Innovative Plastics LNP LUBRICOMP OCL36EXP PPS - LINEAR

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* LUBRICOMP* OCL36EXP is a compound based on Linear PPS containing 30% Carbon Fiber, 15% PTFE. Added features of this grade include; Wear Resistant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCL36EXP-PPS-LINEAR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0100 %	0.0100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Transverse	0.0050 cm/cm @Time 86400 sec	0.0050 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	174 MPa	25200 psi	Type I, 5 mm/min; ASTM D638
	181 MPa	26300 psi	5 mm/min; ISO 527
Elongation at Break	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
	1.1 %	1.1 %	5 mm/min; ISO 527
Tensile Modulus	25.08 GPa	3638 ksi	1 mm/min; ISO 527
	26.62 GPa	3861 ksi	5 mm/min; ASTM D638
Flexural Strength	244 MPa	35400 psi	1.3 mm/min, 50 mm span; ASTM D790
	269 MPa	39000 psi	ISO 178
Flexural Modulus	22.5 GPa	3260 ksi	1.3 mm/min, 50 mm span; ASTM D790
	23.0 GPa	3340 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.510 J/cm	0.955 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.99 J/cm	7.47 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A

Impact Unnotched (ISO) Mechanical Properties	25.0 kJ/m ² Metric	11.9 ft-lb/in ² English	80*10*4-ISO 180/1U Comments
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 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	0.38	0.38	ASTM D3702 Modified
Coefficient of Friction, Static	0.39	0.39	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	121 x 10 ⁻⁸ mm ³ /N-M	60.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	0.700 Âµm/m-Â°C	0.389 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	3.10 Âµm/m-Â°C	1.72 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	278 Â°C	532 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	279 Â°C @Thickness 3.20 mm	534 Â°F @Thickness 0.126 in	unannealed; ASTM D648
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 @Thickness 3.20 mm	513 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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