

SABIC Innovative Plastics LNP LUBRICOMP OFL36 PPS - Branched (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP LUBRICOMP* OFL36 is a compound based on PPS - Branched resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OFL36-PPS-Branched-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
	1.69 g/cc	0.0611 lb/in ³	ISO 1183
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23 [°] 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	
	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	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	124 MPa	18000 psi	ISO 527
	145 MPa	21000 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Tensile Modulus	11.1 GPa	1610 ksi	1 mm/min; ISO 527
	12.34 GPa	1790 ksi	50 mm/min; ASTM D638
Flexural Strength	197 MPa	28600 psi	ISO 178
	200 MPa	29000 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	10.95 GPa	1568 ksi	ISO 178
	11.03 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.50 J/cm	10.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m ²	12.4 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
Impact Test	1.00 J	0.738 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	66.5 x 10 ⁻⁸ mm ³ /N-M	33.0 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	
	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	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	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	266 Â°C	511 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	268 Â°C	514 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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