

SABIC Innovative Plastics LNP LUBRICOMP OCP36A PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* LUBRICOMP* OCP36A is a compound based on PPS - Branched resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Wear Resistant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCP36A-PPS-Branched.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0066 cm/cm	0.0066 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	113 MPa	16400 psi	ISO 527
	119 MPa	17300 psi	ASTM D638
Tensile Strength, Yield	113 MPa	16400 psi	ISO 527
	127 MPa	18400 psi	ASTM D638
Elongation at Break	0.70 %	0.70 %	ISO 527
	1.6 %	1.6 %	ASTM D638
Elongation at Yield	0.70 %	0.70 %	ISO 527
	0.90 %	0.90 %	ASTM D638
Tensile Modulus	18.61 GPa	2699 ksi	50 mm/min; ASTM D638
	19.88 GPa	2883 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	176 MPa Metric	25500 psi English	ISO 178 Comments
	229 MPa	33200 psi	ASTM D790
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178
	20.13 GPa	2920 ksi	ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm	5.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/mÂ²	6.19 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 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	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.30	0.30	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mmÂ³/N-M	15.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 Âµm/m-Â°C	20.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	36.0 Âµm/m-Â°C	20.0 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	7.00 Âµm/m-Â°C	3.89 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	7.20 Âµm/m-Â°C	4.00 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	272 Â°C	522 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	273 Â°C	523 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	248 Â°C	478 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	T ₅₀ A C	T ₅₀ A F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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