

SABIC Innovative Plastics LNP Lubricomp OFG26XXP PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Lubricomp* OFG26XXP is a compound based on Linear PPS containing Glass Fiber and Graphite Powder. Characteristics of this grade are Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-OFG26XXP-PPS-Linear.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.67 g/cc	1.67 g/cc	ASTM D 792
Density	1.66 g/cc	0.0600 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.00 %	0.00 %	23Â°C / 50% RH; ISO 62
	0.00 %	0.00 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa	19300 psi	5 mm/min; ISO 527
	140 MPa	20300 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	133 MPa	19300 psi	5 mm/min; ISO 527
	141 MPa	20500 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.2 %	1.2 %	5 mm/min; ISO 527
	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	14.42 GPa	2091 ksi	1 mm/min; ISO 527
	14.82 GPa	2149 ksi	50 mm/min; ASTM D 638
Flexural Strength	199 MPa	28900 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	13.4 GPa	1940 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	13.55 GPa	1965 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.570 J/cm @Temperature 23.0 Â°C	1.07 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.24 J/cm @Temperature 23.0 Â°C	7.94 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/mÂ² @Temperature 23.0 Â°C	12.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.34	0.34	ASTM D 3702 Modified
Coefficient of Friction, Static	0.37	0.37	ASTM D 3702 Modified
K (wear) Factor	58.4 x 10 ⁻⁸ mmÂ³/N-M	29.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Ring; ASTM D 3702 Modified
	252 x 10 ⁻⁸ mmÂ³/N-M	125 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	12.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	42.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	23.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	275 Â°C	527 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	277 Â°C	531 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D 648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	258 Â°C	496 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 D 648

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