

SABIC Innovative Plastics LNP LUBRICOMP OCP34E PPS - Linear (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP LUBRICOMP* OCP34E is a compound based on PPS - Linear resin containing Silicone, Carbon Fiber, PTFE. Added features of this material include: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCP34E-PPS-Linear-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0039 cm/cm	0.0039 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	159 MPa	23100 psi	ISO 527
	164 MPa	23800 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.6 %	1.6 %	ASTM D638
Tensile Modulus	16.59 GPa	2406 ksi	1 mm/min; ISO 527
	18.96 GPa	2750 ksi	50 mm/min; ASTM D638
Flexural Strength	231 MPa	33500 psi	ASTM D790
	236 MPa	34200 psi	ISO 178

Flexural Modulus Mechanical Properties	14.96 GPa Metric	2170 ksi English	ASTM D790 Comments
	15.32 GPa	2222 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.89 J/cm	7.29 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	265 °C @Thickness 3.20 mm	509 °F @Thickness 0.126 in	unannealed; ASTM D648

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