

LNP™ LUBRICOMP™ OCP36F compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* OCP36F is a compound based on PPS - Linear resin containing Bearing Grade, Carbon Fiber, Lubricants. Added features of this material include: Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound O-BG SM

Product reorder name: OCP36F

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	Lubricant		
Features	Conductivity		
	Lubrication		
	Linear polymer structure		
Uses	Bearing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.10 - 0.20	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	18100	MPa	ASTM D638
Tensile Strength (Break)	158	MPa	ASTM D638
Tensile Elongation (Break)	1.6	%	ASTM D638
Flexural Modulus	19900	MPa	ASTM D790
Flexural Strength	246	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.47		ASTM D3702 Modified
With Self-Static	0.33		ASTM D3702 Modified
Wear Factor - Washer	24.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	56	J/m	ASTM D256
Unnotched Izod Impact (23°C)	490	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0	ohms	ASTM D257

Injection	Nominal Value	Unit
Drying Temperature	121 - 149	°C
Drying Time	4.0	hr
Rear Temperature	304 - 316	°C
Middle Temperature	321 - 332	°C
Front Temperature	332 - 343	°C
Processing (Melt) Temp	316 - 321	°C
Mold Temperature	138 - 166	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm
NOTE		

1. 50 mm/min

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