

LNP™ LUBRICOMP™ OCP36F compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* OCP36F is a compound based on PPS - Linear resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this grade include: Bearing Grade, Electrically Conductive, Wear Resistant.

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

Product reorder name: OCP36F

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Electrically Conductive		
	Linear Polymer Structure		
	Lubricated		
Uses	Bearings		
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 hr	0.10 to 0.20	%	
Across Flow : 24 hr	0.40 to 0.60	%	
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
vs. Itself - Dynamic	0.47		
vs. Itself - Static	0.33		
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 to 149	°C
Drying Time	4.0	hr
Rear Temperature	304 to 316	°C
Middle Temperature	321 to 332	°C
Front Temperature	332 to 343	°C
Processing (Melt) Temp	316 to 321	°C
Mold Temperature	138 to 166	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm
NOTE		

1. 50 mm/min

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