LNP™ LUBRICOMP™ OCP36 compound

Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* OCP36 is a compound based on Polyphenylene Sulfide resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this grade include: Internally Lubricated, Bearing Grade, Electrically Conductive.
Also known as: LNP* LUBRICOMP* Compound O-BG
Product reorder name: OCP36

General Information			
UL YellowCard	E121562-101284446		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Electrically Conductive Lubricated		
Uses	Bearings		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.51	g/cm³	ASTM D792
--	1.54	g/cm³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.30	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.022	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.029	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	26100	MPa	ASTM D638
--	24900	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	165	MPa	ASTM D638
Break	166	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	0.90	%	ASTM D638
Break	0.90	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [4]	21400	MPa	ASTM D790
-- [5]	22200	MPa	ISO 178

Flexural Stress			
--	254	MPa	ISO 178
Break, 50.0 mm Span [6]	253	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	53	J/m	ASTM D256
23°C [7]	4.8	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	490	J/m	ASTM D4812
23°C [8]	26	kJ/m²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	0.420	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	279	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [9]	278	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [10]	266	°C	ISO 75-2/Af
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2	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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		

9.	80*10*4 mm
10.	80*10*4 mm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China