

LNP™ LUBRICOMP™ OCL36A compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP OCL4036 is a compound based on PPS - Branched resin containing PTFE, Carbon Fiber. Added features of this material include:
Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound OCL-4036

Product reorder name: OCL36A

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity		
	Lubrication		
	Branched polymer structure		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (315°C/5.0 kg)	4.00 - 6.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.95	%	ISO 294-4
Flow direction: 24 hours	0.19	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	0.050	%	ISO 62
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	25000	MPa	ISO 527-2/1
Tensile Stress (Break)	153	MPa	ISO 527-2/5
Tensile Strain (Break)	0.70	%	ISO 527-2/5
Flexural Modulus ¹			ISO 178
--	21200	MPa	ISO 178
80°C	20600	MPa	ISO 178
120°C	10200	MPa	ISO 178
150°C	7900	MPa	ISO 178
200°C	6100	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	261	MPa	ISO 178
-- ⁴	217	MPa	ISO 178

80°C ⁵	212	MPa	ISO 178
120°C ⁶	118	MPa	ISO 178
150°C ⁷	94.0	MPa	ISO 178
200°C ⁸	66.0	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.39		ASTM D3702 Modified
Flexural Strain at Break ⁹			ISO 178
--	1.3	%	ISO 178
80°C	1.3	%	ISO 178
120°C	2.3	%	ISO 178
150°C	2.4	%	ISO 178
200°C	2.4	%	ISO 178
Wear Factor - Washer	19.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-40°C ¹⁰	6.0	kJ/m ²	ISO 180/1A
23°C ¹¹	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹²			ISO 180/1U
-40°C	23	kJ/m ²	ISO 180/1U
23°C	26	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹³			
0.45 MPa, unannealed, 64.0mm span	278	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	255	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	3.0E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.9E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1630	J/kg/°C	ASTM E1269
Thermal Conductivity	0.36	W/m/K	ASTM D5930
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 1.0E+3	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.80 mm)	V-0		UL 94
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.	2.0 mm/min
2.	2.0 mm/min
3.	Yield
4.	Break
5.	Yield
6.	Yield
7.	Yield
8.	Yield
9.	2 mm/min
10.	80*10*3
11.	80*10*4
12.	80*10*4
13.	80*10*4 mm

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