

LNP™ LUBRICOMP™ OCL36 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* OCL36 is a compound based on PPS - Linear resin containing 30% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant.

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

Product reorder name: OCL36

General Information			
UL YellowCard	E121562-101135862		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Electrically Conductive		
	Good Wear Resistance		
	Linear Polymer Structure		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.040 to 0.10	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.30 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.36 to 0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.031	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	21500	MPa	ASTM D638
--	30700	MPa	ISO 527-2/1
Tensile Strength			
Break	169	MPa	ASTM D638
Break	167	MPa	ISO 527-2
Tensile Elongation			
Break	1.4	%	ASTM D638
Break	1.1	%	ISO 527-2
Flexural Modulus	21100	MPa	ASTM D790, ISO 178
Flexural Strength			
--	259	MPa	ASTM D790
--	262	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.39		
vs. Itself - Static	0.34		
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			
23°C	59	J/m	ASTM D256
23°C ²	6.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ³	31	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.1	J	ASTM D3763
--	2.97	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	267	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	263	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.6E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	1.8E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.80 mm, Testing by SABIC)	V-0		UL 94
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		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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