

LNP™ LUBRICOMP™ OCL36 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP* Lubricomp* OCL36 is a compound based on PPS - Linear resin containing PTFE, Carbon Fiber. Added features of this material include: Internally Lubricated, Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound OCL4036L

Product reorder name: OCL36

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity		
	Lubrication		
	Linear polymer structure		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (315°C/5.0 kg)	8.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.35 - 0.40	%	ISO 294-4
Flow direction: 24 hours	0.050 - 0.10	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24900	MPa	ISO 527-2/1
Tensile Stress (Break)	163	MPa	ISO 527-2
Tensile Strain (Break)	0.80	%	ISO 527-2
Flexural Modulus	21300	MPa	ISO 178
Flexural Stress	219	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.39		ASTM D3702 Modified
With Self-Static	0.34		ASTM D3702 Modified
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 ¹ (23°C)	5.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ² (23°C)	25	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, unannealed, 64.0mm span	258	°C	ISO 75-2/Bf

1.8 MPa, unannealed, 64.0mm span	278	°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	5.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 1.0E+3	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.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		

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