

LNP™ LUBRICOMP™ OCP36A compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* OCP36A is a compound based on PPS - Branched resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Wear Resistant, Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound OCL-4536

Product reorder name: OCP36A

General Information			
UL YellowCard	E121562-101284446		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Branched Polymer Structure		
	Electrically Conductive		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.49	g/cm ³	ASTM D792
--	1.53	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.66	%	ISO 294-4
Flow : 24 hr	0.15	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	18600	MPa	ASTM D638
--	19900	MPa	ISO 527-2/1
Tensile Strength			
Yield	128	MPa	ASTM D638
Yield	113	MPa	ISO 527-2
Break	119	MPa	ASTM D638
Break	113	MPa	ISO 527-2
Tensile Elongation			
Yield	0.90	%	ASTM D638
Yield	0.77	%	ISO 527-2
Break	1.6	%	ASTM D638

Break	0.78	%	ISO 527-2
Flexural Modulus			
--	20100	MPa	ASTM D790
--	19000	MPa	ISO 178
Flexural Strength			
--	230	MPa	ASTM D790
--	176	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.30		
Wear Factor - Washer	15.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ²	3.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	320	J/m	ASTM D4812
23°C ³	14	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.30	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	274	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	272	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	259	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	248	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	7.2E-6	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.0E-6	cm/cm/°C	ISO 11359-2
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
5.	80*10*4 mm

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