LNP™ LUBRICOMP™ OFL36 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP OFL36 is a compound based on PPS - Linear resin containing 30% Glass Fiber, 15% PTFE. Added features of this grade include: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound OFL-4036
Product reorder name: OFL36

General Information			
UL YellowCard	E121562-101283823		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance Linear Polymer Structure Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.69	g/cm³	ASTM D792
--	1.70	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.20	%	ASTM D955
Across Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.48	%	ISO 294-4
Flow : 24 hr	0.13 to 0.18	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	1.2E-3	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	12800	MPa	ASTM D638
--	12000	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	124	MPa	ASTM D638
Break	121	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	1.3	%	ASTM D638
Break	1.3	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span [4]	11600	MPa	ASTM D790
-- [5]	11100	MPa	ISO 178
Flexural Stress			
--	180	MPa	ISO 178
Break, 50.0 mm Span [6]	178	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.44		
vs. Itself - Static	0.35		
Wear Factor			ASTM D3702 Modified
Ring	7.00 to 8.00	10^-10 in^5-min/ft-lb-hr	
Washer	52.5	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	60	J/m	ASTM D256
23°C [7]	5.7	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
23°C [8]	25	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.40	J	ASTM D3763
23°C, Total Energy	11.8	J	ASTM D3763
--	2.30	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	278	°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	264	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [10]	257	°C	ISO 75-2/Af
CLTE			
Flow : -30 to 30°C	2.5E-5	cm/cm/°C	ASTM D696
Flow : -40 to 40°C	2.3E-5 to 5.0E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.4E-5	cm/cm/°C	ISO 11359-2
Transverse : -30 to 30°C	3.4E-5	cm/cm/°C	ASTM D696
Transverse : -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	5.0E-5	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.	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

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