

LNP™ LUBRICOMP™ OFL36 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* OFL36 is a compound based on PPS - Branched resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound OFL-4036
Product reorder name: OFL36

General Information			
UL YellowCard	E207780-101282823	E207780-101343867	
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
	Branched polymer structure		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.20	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.30 - 0.48	%	ISO 294-4
Flow direction: 24 hours	0.13 - 0.18	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.010	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12300	MPa	ASTM D638
--	11100	MPa	ISO 527-2/1
Tensile Strength			
Fracture	145	MPa	ASTM D638
Fracture	124	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.7	%	ASTM D638
Fracture	1.4	%	ISO 527-2
Flexural Modulus	11000	MPa	ASTM D790, ISO 178
Flexural Strength			
--	201	MPa	ASTM D790
--	197	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.44		ASTM D3702 Modified
With Self-Static	0.35		ASTM D3702 Modified
Wear Factor - Washer	33.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C ²	9.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C ³	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.40	J	ASTM D3763
--	1.97	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	269	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	266	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	2.3E-5 - 5.0E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	2.4E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	5.0E-5	cm/cm/°C	ISO 11359-2
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

