LNP™ LUBRICOMP™ OFL36A compound

Branched 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: OFL36A

General Information			
UL YellowCard	E45329-101283832	E45329-101344460	
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication Branched polymer structure		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.69	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (315°C/5.0 kg)	10.0 - 15.0	cm³/10min	ISO 1133
Water Absorption			ISO 62
23°C, 24 hr	0.020	%	ISO 62
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11100	MPa	ISO 527-2/1
Tensile Stress (Break)	124	MPa	ISO 527-2/5
Tensile Strain (Break)	1.4	%	ISO 527-2/5
Flexural Modulus [1]			ISO 178
--	9700	MPa	ISO 178
80°C	9300	MPa	ISO 178
120°C	4700	MPa	ISO 178
150°C	4000	MPa	ISO 178
200°C	3100	MPa	ISO 178
Flexural Stress			ISO 178
--	216	MPa	ISO 178
80°C	184	MPa	ISO 178
120°C	114	MPa	ISO 178
150°C	80.0	MPa	ISO 178
200°C	58.0	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
Flexural Strain at Break [2]			ISO 178
--	2.4	%	ISO 178
80°C	2.6	%	ISO 178
120°C	5.2	%	ISO 178
150°C	5.8	%	ISO 178
200°C	5.7	%	ISO 178
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			ISO 180/1A
-40°C [3]	8.0	kJ/m²	ISO 180/1A
23°C [4]	7.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [5]			ISO 180/1U
-40°C	31	kJ/m²	ISO 180/1U
23°C	32	kJ/m²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	1.97	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [6] (1.8 MPa, Unannealed, 64.0 mm Span)	266	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.4E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	5.0E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1490	J/kg/°C	ASTM E1269
Thermal Conductivity	0.29	W/m/K	ASTM D5930
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.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*3		
4.	80*10*4		
5.	80*10*4		

6.	80*10*4 mm

Recommended distributors for this material

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