

LNP™ LUBRICOMP™ RFL36 compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP* Lubricomp* RFL36 is a compound based on Nylon 66 resin containing Glass Fiber, PTFE.

Also known as: LNP* LUBRICOMP* Compound RFL4036

Product reorder name: RFL36

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	15.0 - 20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.44	%	ISO 294-4
Flow direction: 24 hours	0.050	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	1.3	%	ISO 62
Equilibrium, 23°C, 50% RH	0.46	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	166	MPa	ISO 527-2/5
Tensile Strain (Break)	2.6	%	ISO 527-2/5
Flexural Modulus ¹			ISO 178
--	7200	MPa	ISO 178
60°C	5300	MPa	ISO 178
100°C	4200	MPa	ISO 178
150°C	3500	MPa	ISO 178
200°C	3100	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	277	MPa	ISO 178
-- ⁴	234	MPa	ISO 178
60°C ⁵	179	MPa	ISO 178
100°C ⁶	131	MPa	ISO 178
150°C ⁷	96.0	MPa	ISO 178
200°C ⁸	83.0	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.59		ASTM D3702 Modified
Flexural Strain at Break ⁹			ISO 178

--	4.1	%	ISO 178
60°C	6.1	%	ISO 178
100°C	6.6	%	ISO 178
150°C	5.6	%	ISO 178
200°C	6.3	%	ISO 178
Wear Factor - Washer	12.0	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 ¹⁰	12	kJ/m ²	ISO 180/1A
23°C ¹¹	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹²			ISO 180/1U
-40°C	74	kJ/m ²	ISO 180/1U
23°C	84	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹³			
0.45 MPa, unannealed, 64.0mm span	> 220	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	> 220	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.5E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.5E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1990	J/kg/°C	ASTM E1269
Thermal Conductivity	0.25	W/m/K	ASTM D5930
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	93.3 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	Break		
4.	Yield		
5.	Yield		
6.	Yield		

7.	Yield
8.	Yield
9.	2 mm/min
10.	80*10*3
11.	80*10*4
12.	80*10*4
13.	80*10*4 mm

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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

