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			
UL YellowCard	E45329-101344595		
Filler / Reinforcement	Glass Fiber		
Additive	PTFE Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.51	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	15.0 to 20.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 24 hr	0.44	%	
Flow : 24 hr	0.050	%	
Water Absorption			ISO 62
23°C, 24 hr	1.3	%	
Equilibrium, 23°C, 50% RH	0.46	%	
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	
60°C	5300	MPa	
100°C	4200	MPa	
150°C	3500	MPa	
200°C	3100	MPa	
Flexural Stress [2]			ISO 178
-- [3]	234	MPa	
-- [4]	277	MPa	
60°C [5]	179	MPa	
100°C [6]	131	MPa	
150°C [7]	96.0	MPa	
200°C [8]	83.0	MPa	

Coefficient of Friction (vs. Itself - Dynamic)	0.59		ASTM D3702 Modified
Flexural Strain at Break [9]			ISO 178
--	4.1	%	
60°C	6.1	%	
100°C	6.6	%	
150°C	5.6	%	
200°C	6.3	%	
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 Strength			ISO 180/1A
-40°C [10]	12	kJ/m²	
23°C [11]	16	kJ/m²	
Unnotched Izod Impact Strength [12]			ISO 180/1U
-40°C	74	kJ/m²	
23°C	84	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [13]			
0.45 MPa, Unannealed, 64.0 mm Span	> 220	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	> 220	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.5E-5	cm/cm/°C	
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 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	Yield		
4.	Break		

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

Recommended distributors for this material

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