

LNP™ LUBRICOMP™ RFL36U compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL36U is a compound based on Nylon 66 resin containing 15% PTFE, 30% Glass Fiber. Added features of this grade include: Wear Resistant, UV Stabilized.

Also known as: LNP* LUBRICOMP* Compound RFL-4036 UV

Product reorder name: RFL36U

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%) UV Stabilizer		
Features	Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.37	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.58	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11700	MPa	ASTM D638
--	10400	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	160	MPa	ASTM D638
Yield	168	MPa	ISO 527-2/5
Break ³	160	MPa	ASTM D638
Break	158	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.8	%	ASTM D638
Yield	2.8	%	ISO 527-2/5
Break ⁵	2.8	%	ASTM D638
Break	2.8	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span ⁶	9260	MPa	ASTM D790
-- ⁷	8890	MPa	ISO 178
Flexural Stress			
--	219	MPa	ISO 178
Yield, 50.0 mm Span ⁸	233	MPa	ASTM D790
Break, 50.0 mm Span ⁹	233	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.67		
vs. Itself - Static	0.61		
Wear Factor			ASTM D3702 Modified
Ring	0.250	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	5.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	74	J/m	ASTM D256
23°C ¹⁰	7.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	880	J/m	ASTM D4812
23°C ¹¹	55	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.50	J	ASTM D3763
--	2.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	258	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	249	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	244	°C	ISO 75-2/Af
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.	50 mm/min		
2.	Type I, 5.0 mm/min		

3.	Type I, 5.0 mm/min
4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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