

LNP™ LUBRICOMP™ RFL36XXY compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL36XXY is a compound based on Nylon 66 containing 30% Glass Fiber, 15% PTFE. Added feature of this grade is: Wear Resistant.

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

Product reorder name: RFL36XXY

General Information			
UL YellowCard	E121562-101344610		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	1.1	%	ASTM D955
Across Flow : 24 hr	1.2	%	ISO 294-4
Flow : 24 hr	0.32	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.62	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11200	MPa	ASTM D638
--	9800	MPa	ISO 527-2/1
Tensile Strength			
Break ²	139	MPa	ASTM D638
Break	138	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.1	%	ASTM D638
Break	2.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	9740	MPa	ASTM D790
-- ⁵	9700	MPa	ISO 178
Flexural Stress			
--	211	MPa	ISO 178
Break, 50.0 mm Span ⁶	236	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.59		
vs. Itself - Static	0.46		
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			
23°C	110	J/m	ASTM D256
-40°C ⁷	7.0	kJ/m ²	ISO 180/1A
23°C ⁸	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	910	J/m	ASTM D4812
23°C ⁹	51	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.0	J	ASTM D3763
--	2.89	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	249	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	248	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.5E-5	cm/cm/°C	
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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4		

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