

LNP™ LUBRICOMP™ RFL33 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL33 is a compound based on Nylon 66 resin containing 15% Glass Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RFL-4033

Product reorder name: RFL33

General Information			
UL YellowCard	E121562-101344610		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.37	g/cm ³	ASTM D792
--	1.36	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50 to 0.70	%	ASTM D955
Across Flow : 24 hr	1.6 to 1.8	%	ASTM D955
Across Flow : 24 hr	1.7	%	ISO 294-4
Flow : 24 hr	0.64	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6890	MPa	ASTM D638
--	6440	MPa	ISO 527-2/1
Tensile Strength			
Yield	120	MPa	ASTM D638
Yield	118	MPa	ISO 527-2
Break	120	MPa	ASTM D638
Break	118	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	3.1	%	
Break	3.1	%	
Flexural Modulus			
--	5520	MPa	ASTM D790
--	5800	MPa	ISO 178

Flexural Strength			
--	179	MPa	ASTM D790
--	183	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.40		
vs. Itself - Static	0.45		
Wear Factor - Washer	19.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C ²	6.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	570	J/m	ASTM D4812
23°C ³	35	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.60	J	ASTM D3763
--	2.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	261	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	260	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	247	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	243	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.9E-5	cm/cm/°C	ISO 11359-2
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.	80*10*4		
3.	80*10*4		

4.	80*10*4 mm
5.	80*10*4 mm

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Recommended distributors for this material

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