

LNP™ LUBRICOMP™ RFL33 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL33 is a compound based on Nylon 66 resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

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

Product reorder name: RFL33

General Information			
UL YellowCard	E207780-101282824		
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
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 hours	0.50 - 0.70	%	ASTM D955
Transverse flow: 24 hours	1.6 - 1.8	%	ASTM D955
Vertical flow direction: 24 hours	1.7	%	ISO 294-4
Flow direction: 24 hours	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
Fracture	120	MPa	ASTM D638
Fracture	118	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	3.1	%	ASTM D638, ISO 527-2
Fracture	3.1	%	ASTM D638, ISO 527-2
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
With self-dynamics	0.40		ASTM D3702 Modified
With Self-Static	0.45		ASTM D3702 Modified
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, 3.20mm	261	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	260	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	247	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	243	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831
Lateral: -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 - 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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

