

LNP™ LUBRICOMP™ RFL34 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL34 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-4034
Product reorder name: RFL34

General Information			
UL YellowCard	E207780-101282824		
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.3	%	ASTM D955
Transverse flow: 24 hours	1.9	%	ASTM D955
Vertical flow direction: 24 hours	1.9	%	ISO 294-4
Flow direction: 24 hours	1.3	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8270	MPa	ASTM D638
--	8060	MPa	ISO 527-2/1
Tensile Strength			
Yield	158	MPa	ASTM D638
Yield	155	MPa	ISO 527-2
Fracture	158	MPa	ASTM D638
Fracture	155	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	3.3	%	ASTM D638, ISO 527-2
Fracture	3.3	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	6890	MPa	ASTM D790
--	7000	MPa	ISO 178
Flexural Strength			
--	221	MPa	ASTM D790
--	223	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

With self-dynamics	0.60		ASTM D3702 Modified
With Self-Static	0.60		ASTM D3702 Modified
Wear Factor - Washer	10.0	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
23°C ²	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C ³	68	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.2	J	ASTM D3763
--	4.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	262	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	262	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	253	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	250	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	7.2E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	7.1E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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

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



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