

LNP™ LUBRICOMP™ RCL34 compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP RCL34 is a compound based on Nylon 66 containing 20% Carbon Fiber, 15% PTFE. Added features of this grade includes: Wear Resistant, Electrically Conductive.
Also known as: LNP* LUBRICOMP* Compound RCL-4034
Product reorder name: RCL34

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Conductivity		
	Good wear resistance		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	1.0 - 3.0	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.67	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.95	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16500	MPa	ASTM D638
--	16300	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	215	MPa	ASTM D638
Fracture	211	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	2.6	%	ASTM D638
Fracture	2.4	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	13200	MPa	ASTM D790
-- ⁵	12800	MPa	ISO 178
Flexural Stress			
--	296	MPa	ISO 178
Fracture, 50.0mm span ⁶	312	MPa	ASTM D790

Coefficient of Friction		ASTM D3702 Modified	
With self-dynamics	0.40	ASTM D3702 Modified	
With Self-Static	0.34	ASTM D3702 Modified	
Wear Factor - Washer	24.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	100	J/m	ASTM D256
23°C ⁷	9.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	790	J/m	ASTM D4812
23°C ⁸	52	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.10	J	ASTM D3763
--	2.26	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 ⁹	261	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	255	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁰	251	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	1.0E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	6.1E-5	cm/cm/°C	ASTM D696
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.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 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 mm
10.	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

