LNP™ LUBRICOMP™ RCL26 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RCL26 is a compound based on Nylon 66 containing 30% Carbon Fiber, 10% PTFE. Added features of this grade include: Wear Resistant, Electrically Conductive.
Also known as: LNP* LUBRICOMP* Compound RCL-4026
Product reorder name: RCL26

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Electrically Conductive Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.34	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Water Absorption			
24 hr, 50% RH	0.58	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.79	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	24200	MPa	ASTM D638
--	23300	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	243	MPa	ASTM D638
Break	236	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	1.9	%	ASTM D638
Break	1.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [4]	19100	MPa	ASTM D790
-- [5]	19000	MPa	ISO 178
Flexural Stress			
--	332	MPa	ISO 178
Break, 50.0 mm Span [6]	356	MPa	ASTM D790

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.41		
vs. Itself - Static	0.33		
Wear Factor			ASTM D3702 Modified
Ring	0.00	10^-10 in^5-min/ft-lb-hr	
Washer	43.0	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	84	J/m	ASTM D256
23°C [7]	8.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	870	J/m	ASTM D4812
23°C [8]	52	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.00	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [9]	260	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	254	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [10]	252	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.3E-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.	5.0 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 mm
10.	80*10*4 mm

Recommended distributors for this material

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