LNP™ LUBRICOMP™ RCP36 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RCP36 is a compound based on Nylon 66 resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Electrically Conductive, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RCL-4536
Product reorder name: RCP36

General Information			
UL YellowCard	E121562-101281618		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
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, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.43	%	ISO 294-4
Flow : 24 hr	0.15	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.93	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.4	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	29500	MPa	ASTM D638
--	23100	MPa	ISO 527-2/1
Tensile Strength			
Break	201	MPa	ASTM D638
Break	228	MPa	ISO 527-2
Tensile Elongation			
Break	1.4	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	16400	MPa	ASTM D790
--	21300	MPa	ISO 178

Flexural Strength			
--	333	MPa	ASTM D790
--	354	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.25		
vs. Itself - Static	0.23		
Wear Factor - Washer	6.00	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C [2]	10	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	950	J/m	ASTM D4812
23°C [3]	65	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.90	J	ASTM D3763
--	2.85	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	254	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	244	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [4]	245	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.2E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.3E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
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	277 to 288	°C	
Mold Temperature	82.2 to 93.3	°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

Recommended distributors for this material

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