LNP™ LUBRICOMP™ RCL36S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RCL36S is a compound based on Nylon 66 resin containing 30% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant, Heat Stabilized.
Also known as: LNP* LUBRICOMP* Compound RCL-4036 HS
Product reorder name: RCL36S

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	Heat Stabilizer PTFE Lubricant (15%)		
Features	Electrically Conductive Good Wear Resistance Heat Stabilized Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.38	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.72	%	ISO 294-4
Flow : 24 hr	0.11	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.53	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.84	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	32400	MPa	ASTM D638
--	22600	MPa	ISO 527-2/1
Tensile Strength			
Break	182	MPa	ASTM D638
Break	245	MPa	ISO 527-2
Tensile Elongation			
Break	0.90	%	ASTM D638
Break	1.8	%	ISO 527-2
Flexural Modulus			

--	18400	MPa	ASTM D790
--	22700	MPa	ISO 178
Flexural Strength			
--	373	MPa	ASTM D790
--	396	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.30		
Wear Factor - Washer	15.0	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 [2]	11	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C [3]	69	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.2	J	ASTM D3763
--	3.91	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	255	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [4]	> 240	°C	ISO 75-2/Af
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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