

LNP™ LUBRICOMP™ RCP36 compound

Polyamide 66
SABIC Innovative Plastics

Message:

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

General Information			
UL YellowCard	E45329-101344478		
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE silicone lubricant		
Features	Conductivity		
	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.20	%	ASTM D955
Transverse flow: 24 hours	0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.43	%	ISO 294-4
Flow direction: 24 hours	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			
Fracture	201	MPa	ASTM D638
Fracture	228	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.4	%	ASTM D638
Fracture	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
With self-dynamics	0.25		ASTM D3702 Modified
With Self-Static	0.23		ASTM D3702 Modified
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/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	950	J/m	ASTM D4812
23°C ³	65	kJ/m ²	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, 3.20mm	254	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	244	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	231	°C	ISO 75-2/Af
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	277 - 288	°C	
Mold Temperature	82.2 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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