

LNP™ LUBRICOMP™ RCL36S compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RCL36S is a compound based on Nylon 66 resin containing Carbon Fiber, PTFE. Added features of this material include: Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound RCL-4036 HS

Product reorder name: RCL36S

General Information			
UL YellowCard	E207780-101282598		
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10	%	ASTM D955
Transverse flow: 24 hours	0.70	%	ASTM D955
Vertical flow direction: 24 hours	0.72	%	ISO 294-4
Flow direction: 24 hours	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			
Fracture	182	MPa	ASTM D638
Fracture	245	MPa	ISO 527-2
Tensile Elongation			
Fracture	0.90	%	ASTM D638
Fracture	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
With self-dynamics	0.36		ASTM D3702 Modified
With Self-Static	0.30		ASTM D3702 Modified
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/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ³	69	kJ/m ²	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, 3.20mm	255	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm 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 - 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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