

LNP™ LUBRICOMP™ SCP36 compound

Polyamide 12

SABIC Innovative Plastics

Message:

LNP LUBRICOMP SCP36 is a compound based on Nylon 12 containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this grade include: Wear Resistant, Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound SCL-4536

Product reorder name: SCP36

General Information			
UL YellowCard	E121562-101282590		
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	1.26	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10	%	
Across Flow : 24 hr	0.50	%	
Water Absorption			
24 hr, 50% RH	0.16	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18200	MPa	ISO 527-2/1
Tensile Strength			
Break ¹	1.00	MPa	ASTM D638
Break	122	MPa	ISO 527-2/5
Tensile Elongation			
Break ²	1.0	%	ASTM D638
Break	1.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ³	16200	MPa	ASTM D790
-- ⁴	16000	MPa	ISO 178
Flexural Strength ⁵ (Break, 50.0 mm Span)	178	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.47		
vs. Itself - Static	0.33		

Wear Factor			ASTM D3702 Modified
Ring	0.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	14.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	82	J/m	ASTM D256
23°C ⁶	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	510	J/m	ASTM D4812
23°C ⁷	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.0	J	ASTM D3763
--	2.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	178	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	177	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	173	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	169	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.1E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	100 to 105	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0 to 60.0	°C	
Rear Temperature	240 to 260	°C	
Middle Temperature	250 to 270	°C	
Front Temperature	260 to 280	°C	
Nozzle Temperature	250 to 270	°C	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	60.0 to 85.0	°C	
NOTE			
1.	Type I, 5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	1.3 mm/min		
4.	2.0 mm/min		
5.	1.3 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		

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