

LNP™ LUBRICOMP™ RFP36 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFP36 is a compound based on Nylon 66 resin containing 30% Glass Fiber, 15% PTFE, Silicone. Added features of this material include: Wear Resistant.

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

Product reorder name: RFP36

General Information			
UL YellowCard	E121562-101284272		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	1.0	%	ASTM D955
Across Flow : 24 hr	0.97	%	ISO 294-4
Flow : 24 hr	0.21	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.78	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10500	MPa	ASTM D638
--	9800	MPa	ISO 527-2/1
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	195	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.56		
vs. Itself - Static	0.48		
Wear Factor - Washer	11.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ²	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	780	J/m	ASTM D4812

23°C ³	50	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.00	J	ASTM D3763
--	5.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	233	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	236	°C	ISO 75-2/Af
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	282 to 304	°C	
Mold Temperature	93.3 to 110	°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		

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