

LNP™ LUBRICOMP™ RFP36 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFP36 is a compound based on Nylon 66 resin containing Glass Fiber, PTFE, Silicone. Added features of this material include: Internally Lubricated. This product is also known as LUBRICOMP* RFL-4536.

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

Product reorder name: RFP36

General Information			
UL YellowCard	E207780-101334267		
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE silicone lubricant		
Features	Lubrication		
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 hours	0.20	%	ASTM D955
Transverse flow: 24 hours	1.0	%	ASTM D955
Vertical flow direction: 24 hours	0.97	%	ISO 294-4
Flow direction: 24 hours	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
Tensile Strength			
Fracture	133	MPa	ASTM D638
Fracture	135	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.1	%	ASTM D638
Fracture	2.2	%	ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	9400	MPa	ISO 178
Flexural Strength			
--	195	MPa	ASTM D790
--	207	MPa	ISO 178

Coefficient of Friction		ASTM D3702 Modified	
With self-dynamics	0.56	ASTM D3702 Modified	
With Self-Static	0.48	ASTM D3702 Modified	
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, 3.20mm	233	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm 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 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	93.3 - 110	°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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