

LNP™ LUBRICOMP™ RFP38 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFP38 is a compound based on Nylon 66 containing 40% Glass Fiber, 15% PTFE/Silicone. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RFL-4538

Product reorder name: RFP38

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.60	g/cm ³	
--	1.50	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.70 to 0.90	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.57	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.86	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13400	MPa	ASTM D638
--	13100	MPa	ISO 527-2/1
Tensile Strength			
Break ²	173	MPa	ASTM D638
Break	174	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.4	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	11600	MPa	ASTM D790
-- ⁵	11900	MPa	ISO 178
Flexural Stress			
--	263	MPa	ISO 178
Break, 50.0 mm Span ⁶	263	MPa	ASTM D790

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.65		
vs. Itself - Static	0.61		
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	120	J/m	ASTM D256
23°C ⁷	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	910	J/m	ASTM D4812
23°C ⁸	58	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.00	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	257	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	257	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	248	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	243	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.3E-5	cm/cm/°C	
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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		

6.	1.3 mm/min
7.	80*10*4
8.	80*10*4
9.	80*10*4 mm
10.	80*10*4 mm

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