

LNP™ LUBRICOMP™ RZL16 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* RZL16 is a compound based on Nylon 66 resin containing 30% Milled Glass, 5% PTFE. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RFL-4016 M

Product reorder name: RZL16

General Information			
Filler / Reinforcement	Milled Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (5%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.40	g/cm ³	
--	1.39	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.8	%	
Across Flow : 24 hr	1.4	%	
Water Absorption			
24 hr, 50% RH	0.69	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.96	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5420	MPa	ASTM D638
--	5390	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	63.0	MPa	ASTM D638
Yield	64.0	MPa	ISO 527-2/5
Break ³	62.0	MPa	ASTM D638
Break	63.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.4	%	ASTM D638
Yield	2.0	%	ISO 527-2/5
Break ⁵	3.2	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	4410	MPa	ASTM D790

-- ⁷	4500	MPa	ISO 178
Flexural Stress			
--	90.0	MPa	ISO 178
Break, 50.0 mm Span ⁸	102	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.49		
vs. Itself - Static	0.53		
Wear Factor			ASTM D3702 Modified
Ring	3.40	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	44.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ⁹	4.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	190	J/m	ASTM D4812
23°C ¹⁰	20	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.40	J	ASTM D3763
--	1.40	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	248	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	239	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	215	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	108	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.2E-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.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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