LNP™ LUBRICOMP™ RP004S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RP004S is a compound based on Nylon 66 containing PTFE/Silicone. Added features of this grade include: Heat Stabilized, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RL-4540 HS
Product reorder name: RP004S

General Information			
Additive	Heat Stabilizer PTFE + Silicone Lubricant		
Features	Good Wear Resistance Heat Stabilized Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.24	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.86	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2950	MPa	ASTM D638
--	2760	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	61.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/5
Break [3]	59.0	MPa	ASTM D638
Break	64.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	4.8	%	ASTM D638
Yield	4.8	%	ISO 527-2/5
Break [5]	18	%	ASTM D638
Break	19	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span [6]	2150	MPa	ASTM D790
-- [7]	2230	MPa	ISO 178
Flexural Stress	78.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.23		
vs. Itself - Static	0.11		
Wear Factor			ASTM D3702 Modified
Ring	-0.200	10^-10 in^5-min/ft-lb-hr	
Washer	4.50	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	46	J/m	ASTM D256
23°C [8]	5.4	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1400	J/m	ASTM D4812
23°C [9]	120	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.80	J	ASTM D3763
--	2.80	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	184	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [10]	154	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	57.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [11]	57.0	°C	ISO 75-2/Af
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	277 to 288	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 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.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

Recommended distributors for this material

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