

LNP™ LUBRICOMP™ RL4040HSUV

compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* RL4040HSUV is a compound based on Nylon 66 containing 20% PTFE. Added features of this grade include: Heat Stabilized, UV Stabilized, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RL-4040 HS UV

Product reorder name: RL4040HSUV

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant (20%)		
	UV Stabilizer		
Features	Good UV Resistance		
	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.28	g/cm ³	
--	1.27	g/cm ³	
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	0.75	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2890	MPa	ASTM D638
--	2800	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	64.0	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2/5
Break ³	64.0	MPa	ASTM D638
Break	63.0	MPa	ISO 527-2/5

Tensile Elongation			
Yield ⁴	5.2	%	ASTM D638
Yield	5.1	%	ISO 527-2/5
Break ⁵	7.9	%	ASTM D638
Break	9.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2640	MPa	ASTM D790
-- ⁷	2550	MPa	ISO 178
Flexural Stress	97.4	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.22		
vs. Itself - Static	0.11		
Wear Factor			ASTM D3702 Modified
Ring	0.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	28.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	45	J/m	ASTM D256
23°C ⁸	5.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	680	J/m	ASTM D4812
23°C ⁹	43	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.40	J	ASTM D3763
--	0.840	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	236	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	102	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	64.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	62.5	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.1E-4	cm/cm/°C	
Transverse : -30 to 30°C	9.2E-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	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.	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.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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