

LNP™ LUBRICOMP™ ML004S compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP LUBRICOMP ML004S is a compound based on Polypropylene resin containing 20% PTFE. Added features of this material include: Wear Resistant, Heat Stabilized.

Also known as: LNP* LUBRICOMP* Compound ML-4040 HS

Product reorder name: ML004S

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2030	MPa	ASTM D638
--	1670	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	33.0	MPa	ASTM D638
Yield	31.0	MPa	ISO 527-2/5
Break ³	30.0	MPa	ASTM D638
Break	29.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.6	%	ASTM D638
Yield	5.0	%	ISO 527-2/5
Break ⁵	15	%	ASTM D638
Break	13	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span ⁶	1760	MPa	ASTM D790
-- ⁷	1700	MPa	ISO 178
Flexural Stress			
--	44.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	47.0	MPa	ASTM D790
Coefficient of Friction			
vs. Itself - Dynamic	0.76		
vs. Itself - Static	0.62		
Wear Factor			
Ring	6.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Washer	172	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	44	J/m	ASTM D256
23°C ⁹	3.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ¹⁰	22	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.02	J	ASTM D3763
--	1.38	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	119	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	105	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	65.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	60.0	°C	ISO 75-2/Af
CLTE			
Flow : -30 to 30°C	9.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.0E-3	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	216 to 227	°C	
Front Temperature	238 to 249	°C	
Processing (Melt) Temp	227 to 249	°C	
Mold Temperature	32.2 to 48.9	°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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