

LNP™ LUBRICOMP™ ML004 compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ML004 is a product based on Polypropylene containing 20% PTFE. Added features of this grade include: Wear Resistant.

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

Product reorder name: ML004

General Information			
Additive	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density			
--	1.02	g/cm ³	ISO 1183
--	1.01	g/cm ³	ASTM D792
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	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1950	MPa	ASTM D638
--	1620	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	33.0	MPa	ASTM D638
Yield	31.0	MPa	ISO 527-2/5
Break ³	29.0	MPa	ASTM D638
Break	28.0	MPa	ISO 527-2/5
Tensile Elongation ⁴			ASTM D638
Yield	5.5	%	
Break	10	%	
Flexural Modulus			
50.0 mm Span ⁵	1590	MPa	ASTM D790
-- ⁶	1590	MPa	ISO 178
Flexural Stress	40.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.89		
vs. Itself - Static	0.70		
Wear Factor			ASTM D3702 Modified
Ring	13.9	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	109	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	27	J/m	ASTM D256
23°C ⁷	2.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
23°C ⁸	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.70	J	ASTM D3763
--	0.900	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	115	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	102	°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 ¹⁰	56.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.3E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.3E-4	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.	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.	1.3 mm/min		
6.	2.0 mm/min		
7.	80*10*4		

8.	80*10*4
9.	80*10*4 mm
10.	80*10*4 mm

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