

LNP™ LUBRICOMP™ ML003S compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP LUBRICOMP ML003S is a compound based on Polypropylene resin containing 15% PTFE. Added features include: Heat Stabilized, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound ML-4030 HS
Product reorder name: ML003S

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	0.988	g/cm ³	
--	0.990	g/cm ³	
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	1.0E-3	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1980	MPa	ASTM D638
--	1690	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	34.0	MPa	ASTM D638
Yield	33.0	MPa	ISO 527-2/5
Break ³	27.0	MPa	ASTM D638
Break	28.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	6.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/5
Break ⁵	23	%	ASTM D638
Break	18	%	ISO 527-2/5

Flexural Modulus			
50.0 mm Span ⁶	1590	MPa	ASTM D790
-- ⁷	1710	MPa	ISO 178
Flexural Stress	42.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	38	J/m	ASTM D256
23°C ⁸	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	500	J/m	ASTM D4812
23°C ⁹	33	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.00	J	ASTM D3763
--	1.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	111	°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	57.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	57.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.1E-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.	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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