

LNP™ LUBRICOMP™ FL003 compound

Polyethylene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* FL003 is a compound based on Polyethylene resin containing 15% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound FL-4030

Product reorder name: FL003

General Information			
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	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	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.040	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1480	MPa	ASTM D638
--	1310	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	24.0	MPa	ASTM D638
Yield	24.0	MPa	ISO 527-2/5
Break ³	14.0	MPa	ASTM D638
Break	12.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	8.5	%	ASTM D638
Yield	8.4	%	ISO 527-2/5
Break ⁵	59	%	ASTM D638
Break	240	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	851	MPa	ASTM D790
-- ⁷	922	MPa	ISO 178
Flexural Stress	20.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	39	J/m	ASTM D256
23°C ⁸	3.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1500	J/m	ASTM D4812
23°C ⁹	95	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.30	J	ASTM D3763
--	4.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	72.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	82.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	46.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	46.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.3E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.5E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	195 to 205	°C	
Middle Temperature	210 to 220	°C	
Front Temperature	220 to 230	°C	
Processing (Melt) Temp	230	°C	
Mold Temperature	40.0 to 55.0	°C	
Back Pressure	0.200 to 0.300	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		

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