

LNP™ LUBRICOMP™ PDXF89080 compound

Polyethylene

SABIC Innovative Plastics

Message:

LNP LUBRICOMP PDXF89080 is a compound based on Polyethylene containing Proprietary Fillers. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-F-89080

Product reorder name: PDXF89080

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	0.918	g/cm ³	
--	0.920	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	204	MPa	ASTM D638
--	246	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	10.0	MPa	ASTM D638
Yield	9.00	MPa	ISO 527-2/5
Break ³	9.00	MPa	ASTM D638
Break	8.00	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	73	%	ASTM D638
Yield	88	%	ISO 527-2/5
Break ⁵	90	%	ASTM D638
Break	160	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	123	MPa	ASTM D790
-- ⁷	129	MPa	ISO 178
Flexural Stress	5.60	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	300	J/m	ASTM D256
23°C ⁸	37	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	19.4	J	ASTM D3763
--	19.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	42.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	41.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	23.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	23.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.1E-4	cm/cm/°C	
Transverse : -30 to 30°C	2.0E-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	210 to 221	°C	
Front Temperature	221 to 232	°C	
Processing (Melt) Temp	232	°C	
Mold Temperature	37.8 to 54.4	°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 mm		
10.	80*10*4 mm		

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