

LNP™ LUBRICOMP™ BX02715 compound

Styrene Acrylonitrile

SABIC Innovative Plastics

Message:

LNP LUBRICOMP BX02715 is a compound based on SAN containing proprietary fillers. Added features of this grade include: Wear Resistant, Tight Dimensional Tolerance, Good for Water Meter Applications.

Also known as: LNP* LUBRICOMP* Compound PDX-B-02715

Product reorder name: BX02715

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.34	g/cm ³	ASTM D792
--	1.35	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9180	MPa	ASTM D638
--	8460	MPa	ISO 527-2/1
Tensile Strength			
Break ²	60.8	MPa	ASTM D638
Break	58.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.1	%	ASTM D638
Break	1.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	8100	MPa	ASTM D790
-- ⁵	7970	MPa	ISO 178
Flexural Stress			
--	71.0	MPa	ISO 178
Break, 50.0 mm Span ⁶	87.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	11	J/m	ASTM D256
23°C ⁷	1.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	83	J/m	ASTM D4812
23°C ⁸	6.6	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.10	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	101	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	101	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	96.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	96.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	277 to 288	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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