LNP™ LUBRICOMP™ AI001XXH compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* AI001XXH is a compound based on ABS resin containing 2% Silicone. Added features of this grade include: Healthcare, Wear Resistant.

General Information			
Additive	Silicone Lubricant (2%)		
Features	Good Wear Resistance Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.05	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	0.60 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.25	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.36	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2230	MPa	ASTM D638
--	2120	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	40.0	MPa	ASTM D638
Yield	38.0	MPa	ISO 527-2/5
Break [3]	32.0	MPa	ASTM D638
Break	31.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	2.3	%	ASTM D638
Yield	2.2	%	ISO 527-2/5
Break [5]	44	%	ASTM D638
Break	59	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	2270	MPa	ASTM D790
-- [7]	2120	MPa	ISO 178
Flexural Stress			

--	56.0	MPa	ISO 178
Yield, 50.0 mm Span [8]	60.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.46		
vs. Itself - Static	0.43		
Wear Factor			ASTM D3702 Modified
Ring	-1.30	10^-10 in^5-min/ft-lb-hr	
Washer	480	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C [9]	15	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1400	J/m	ASTM D4812
23°C [10]	130	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.40	J	ASTM D3763
--	3.10	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [11]	95.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	86.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [12]	86.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.3E-5	cm/cm/°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	71.1 to 82.2	°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.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

Recommended distributors for this material

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