

SABIC Innovative Plastics LNP LUBRICOMP AI001XXH ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Lubricomp* AI001XXH is a compound based on ABS containing 2% Silicone. Characteristics of this grade are: Healthcare and Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-AI001XXH-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Moisture Absorption	0.250 %	0.250 %	50% RH, 24 hrs; ASTM D570
	0.360 %	0.360 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	5 mm/min; ISO 527
	32.0 MPa	4640 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	38.0 MPa	5510 psi	5 mm/min; ISO 527
	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	44 %	44 %	Type I, 5 mm/min; ASTM D638
	59 %	59 %	5 mm/min; ISO 527
Elongation at Yield	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.12 GPa	307 ksi	1 mm/min; ISO 527
	2.22 GPa	322 ksi	50 mm/min; ASTM D638
Flexural Strength	56.0 MPa	8120 psi	ISO 178
Flexural Yield Strength	60.0 MPa	8700 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.11 GPa	306 ksi	2 mm/min; ISO 178
	2.27 GPa	329 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.8 J/cm	25.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	132 kJ/m ²	62.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 Modified
K (wear) Factor	967 x 10 ⁻⁸ mm ³ /N-M	480 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	92.0 µm/m-°C	51.1 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	93.0 µm/m-°C	51.7 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	95.0 °C	203 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	86.0 °C	187 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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