

SABIC Innovative Plastics LNP LUBRICOMP AL003 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP LUBRICOMP* AL003 is a compound based on Acrylonitrile Butadiene Styrene resin containing 15% PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-AL003-ABS.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.310 %	0.310 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM D638
	32.0 MPa	4640 psi	ISO 527
Tensile Strength, Yield	35.0 MPa	5080 psi	ASTM D638
	35.0 MPa	5080 psi	ISO 527
Elongation at Break	11.6 %	11.6 %	ISO 527
	14.7 %	14.7 %	ASTM D638
Elongation at Yield	2.3 %	2.3 %	ASTM D638
	2.7 %	2.7 %	ISO 527

Tensile Modulus Mechanical Properties	2.28 GPa Metric	331 ksi English	1 mm/min; ISO 527 Comments
	2.41 GPa	350 ksi	50 mm/min; ASTM D638
Flexural Strength	61.0 MPa	8850 psi	ISO 178
	62.0 MPa	8990 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.02 J/cm	3.78 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	8.00 J	5.90 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.22	0.22	ASTM D3702 Modified
Coefficient of Friction, Static	0.11	0.11	ASTM D3702 Modified
K (wear) Factor	201 x 10 ⁻⁸ mm ³ /N-M	100 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.4 µm/m-°C @Temperature -40.0 - 40.0 °C	53.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	95.7 µm/m-°C @Temperature -40.0 - 40.0 °C	53.2 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	93.6 µm/m-°C @Temperature -40.0 - 40.0 °C	52.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	95.0 µm/m-°C @Temperature -40.0 - 40.0 °C	52.8 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	77.0 °C	171 °F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
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