

SABIC Innovative Plastics LNP LUBRICOMP AL002 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP LUBRICOMP* AL002 is a compound based on Acrylonitrile Butadiene Styrene resin containing 10% 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-AL002-ABS.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
	1.11 g/cc	0.0401 lb/in ³	ISO 1183
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	
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 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	ISO 527
	32.0 MPa	4640 psi	ASTM D638
Tensile Strength, Yield	37.0 MPa	5370 psi	ASTM D638
	37.0 MPa	5370 psi	ISO 527
Elongation at Break	21 %	21 %	ASTM D638
	32.2 %	32.2 %	ISO 527
Elongation at Yield	2.2 %	2.2 %	ISO 527
	2.6 %	2.6 %	ASTM D638
Tensile Modulus	1.94 GPa	281 ksi	1 mm/min; ISO 527
	2.13 GPa	309 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	62.0 MPa Metric	8990 psi English	ASTM D790 Comments
	63.0 MPa	9140 psi	ISO 178
Flexural Modulus	2.19 GPa	318 ksi	ASTM D790
	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.43 J/cm	15.8 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)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.4 µm/m-°C	53.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	96.0 µm/m-°C	53.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	95.0 µm/m-°C	52.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	95.4 µm/m-°C	53.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	91.0 °C	196 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	89.0 °C	192 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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