

SABIC Innovative Plastics LNP LUBRICOMP ABL12 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Lubricomp* ABL12 is a compound based on Acrylonitrile Butadiene Styrene resin containing 10% Glass Bead and 5% 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-ABL12-ABS.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 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	ASTM D638
	31.0 MPa	4500 psi	ISO 527
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527
	33.0 MPa	4790 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
	28 %	28 %	ISO 527
Tensile Modulus	2.28 GPa	331 ksi	1 mm/min; ISO 527
	2.58 GPa	374 ksi	50 mm/min; ASTM D638
Flexural Strength	59.0 MPa	8560 psi	ISO 178
	62.0 MPa	8990 psi	ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	ISO 178
	2.38 GPa	345 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.60 J/cm	10.5 ft-lb/in	ASTM D4812

Mechanical Properties (ISO)	Metric ¹ /m ²	English ^{lb} /in ²	Comments ^D 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.39	0.39	ASTM D3702 Modified
Coefficient of Friction, Static	0.44	0.44	ASTM D3702 Modified
K (wear) Factor	252 x 10 ⁻⁸ mm ³ /N-M	125 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 °C @Thickness 3.20 mm	176 °F @Thickness 0.126 in	unannealed; ASTM D648

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