

SABIC Innovative Plastics LNP LUBRICOMP DBP32EI PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DBP32EI is a compound based on Polycarbonate resin containing 15% PTFE/Silicone and 10% Glass Bead. 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-DBP32EI-PC.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0058 cm/cm	0.0058 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	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0071 cm/cm	0.0071 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	ASTM D638
Tensile Strength, Yield	15.0 MPa	2180 psi	ASTM D638
Elongation at Break	8.8 %	8.8 %	ASTM D638
Tensile Modulus	4.13 GPa	599 ksi	50 mm/min; ASTM D638
Flexural Strength	64.0 MPa	9280 psi	ISO 178
	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
	2.75 GPa	399 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	9.45 J/cm Metric	17.7 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	68.0 kJ/m ²	32.4 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.51	0.51	ASTM D3702 Modified
Coefficient of Friction, Static	0.53	0.53	ASTM D3702 Modified
K (wear) Factor	238 x 10 ⁻⁸ mm ³ /N-M	118 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	121 °C @Thickness 3.20 mm	250 °F @Thickness 0.126 in	unannealed; ASTM D648

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