

SABIC Innovative Plastics LNP LUBRICOMP DL003 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DL003 is a compound based on Polycarbonate 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-DL003-PC.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0083 cm/cm	0.0083 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 - 0.0090 cm/cm	0.0080 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0088 cm/cm	0.0088 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ASTM D638
	50.0 MPa	7250 psi	ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
	53.0 MPa	7690 psi	ISO 527
Elongation at Break	37.6 %	37.6 %	ASTM D638
	5.5 %	5.5 %	ISO 527
Elongation at Yield	6.1 %	6.1 %	ASTM D638
	2.06 GPa	299 ksi	50 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527
	80.0 MPa	11600 psi	ASTM D790

Mechanical Properties	84.0 MPa Metric	12200 psi English	ISO 178 Comments
Flexural Modulus	2.18 GPa	316 ksi	ASTM D790
	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched	2.77 J/cm	5.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/m ²	65.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	30.0 J	22.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	34.0 J	25.1 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.18	0.18	ASTM D3702 Modified
Coefficient of Friction, Static	0.070	0.070	ASTM D3702 Modified
K (wear) Factor	121 x 10 ⁻⁸ mm ³ /N-M	60.0 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)	131 °C	268 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 °C	261 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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