

SABIC Innovative Plastics LNP LUBRICOMP DL003P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DL003P is a compound based on Polycarbonate resin containing 15% PTFE. Added features of this material include:
Exceptional Processing, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL003P-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	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.170 %	0.170 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
	42.0 MPa	6090 psi	ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
	53.0 MPa	7690 psi	ISO 527
Elongation at Break	22.6 %	22.6 %	ISO 527
	39.9 %	39.9 %	ASTM D638
Elongation at Yield	5.2 %	5.2 %	ASTM D638
	5.3 %	5.3 %	ISO 527

Tensile Modulus Mechanical Properties	2.33 GPa Metric	338 ksi English	1 mm/min; ISO 527 Comments
	2.42 GPa	351 ksi	50 mm/min; ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
	83.0 MPa	12000 psi	ISO 178
Flexural Modulus	2.02 GPa	293 ksi	ISO 178
	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
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)	NB	NB	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	72.0 J	53.1 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
CTE, linear, Parallel to Flow	59.4 Âµm/m-Â°C	33.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	61.0 Âµm/m-Â°C	33.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	70.2 Âµm/m-Â°C	39.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	71.6 Âµm/m-Â°C	39.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	121 Â°C	250 Â°F	

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