

SABIC Innovative Plastics LNP LUBRICOMP DL003EU PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DL003EU is a compound based on Polycarbonate resin containing 15% PTFE. Added features of this material include:
Easy Molding, UV Stabilized, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL003EU-PC.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	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	0.0080 - 0.0090 cm/cm	0.0080 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ASTM D638
	50.0 MPa	7250 psi	ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638
	54.0 MPa	7830 psi	ISO 527
Elongation at Break	9.6 %	9.6 %	ISO 527
	25.5 %	25.5 %	ASTM D638
Elongation at Yield	5.5 %	5.5 %	ISO 527
	5.6 %	5.6 %	ASTM D638
Tensile Modulus	2.18 GPa	316 ksi	50 mm/min; ASTM D638
	2.20 GPa	319 ksi	1 mm/min; ISO 527
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
	84.0 MPa	12200 psi	ISO 178
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
	2.30 GPa	334 ksi	ISO 178

Mechanical Properties	Metric ^{°C/mm}	English ^{lb/in}	Comments
Izod Impact, Unnotched	21.36 J/cm	40.02 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/mÂ²	7.61 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	100 kJ/mÂ²	47.6 ft-lb/inÂ²	80*10*4; ISO 180/1U
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 mmÂ³/N-M	60.0 x 10 ⁻¹⁰ inÂ³-min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	74.0 Âµm/m-Â°C	41.1 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	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	75.5 Âµm/m-Â°C	41.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	138 Â°C	280 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	128 Â°C	262 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	116 Â°C	241 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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