

SABIC Innovative Plastics LNP LUBRICOMP DP003 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DP003 is a compound based on Polycarbonate resin containing 15% PTFE/Silicone. 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-DP003-PC.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.190 %	0.190 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.010 cm/cm	0.0090 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	ISO 527
	42.0 MPa	6090 psi	ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	ASTM D638
	49.0 MPa	7110 psi	ISO 527
Elongation at Break	35.1 %	35.1 %	ASTM D638
	41.2 %	41.2 %	ISO 527
Elongation at Yield	5.6 %	5.6 %	ASTM D638
	5.8 %	5.8 %	ISO 527

Tensile Modulus Mechanical Properties	2.16 GPa Metric	313 ksi English	1 mm/min; ISO 527 Comments
	2.23 GPa	323 ksi	50 mm/min; ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	1.84 GPa	267 ksi	ISO 178
	1.89 GPa	274 ksi	ASTM D790
Izod Impact, Notched	2.83 J/cm	5.30 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	31.0 kJ/m ²	14.8 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	28.0 J	20.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	61.0 J	45.0 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.10	0.10	ASTM D3702 Modified
Coefficient of Friction, Static	0.26	0.26	ASTM D3702 Modified
K (wear) Factor	84.6 x 10 ⁻⁸ mm ³ /N-M	42.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 Åµm/m-Å°C	37.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	67.4 Åµm/m-Å°C	37.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	70.2 Åµm/m-Å°C	39.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	71.2 Åµm/m-Å°C	39.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	129 Å°C	264 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 Å°C	261 Å°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D648
Comments

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