

SABIC Innovative Plastics LNP LUBRICOMP EL003 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP LUBRICOMP* EL003 is a compound based on Polyetherimide 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-EL003-PEI.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption	0.210 %	0.210 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.0 MPa	11900 psi	ISO 527
	85.0 MPa	12300 psi	ASTM D638
Tensile Strength, Yield	83.0 MPa	12000 psi	ISO 527
	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	8.1 %	8.1 %	ISO 527
	10.3 %	10.3 %	ASTM D638
Elongation at Yield	6.3 %	6.3 %	ISO 527
	6.5 %	6.5 %	ASTM D638

Tensile Modulus Mechanical Properties	2.74 GPa Metric	397 ksi English	1 mm/min; ISO 527 Comments
	2.75 GPa	399 ksi	50 mm/min; ASTM D638
Flexural Strength	130 MPa	18900 psi	ISO 178
	135 MPa	19600 psi	ASTM D790
Flexural Modulus	2.89 GPa	419 ksi	ASTM D790
	3.02 GPa	438 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.47 J/cm	14.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	61.0 kJ/m ²	29.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.30	0.30	ASTM D3702 Modified
Coefficient of Friction, Static	0.23	0.23	ASTM D3702 Modified
K (wear) Factor	214 x 10 ⁻⁸ mm ³ /N-M	106 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	47.7 Åµm/m-Å°C	26.5 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	47.8 Åµm/m-Å°C	26.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	47.6 Åµm/m-Å°C	26.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	47.6 Åµm/m-Å°C	26.4 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)	182 Å°C	360 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	182 Å°C	360 Å°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D648
Comments

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