

SABIC Innovative Plastics LNP Lubricomp EL004 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Lubricomp* EL004 is a compound based on Polyetherimide resin containing PTFE. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-EL004-PEI.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D 792
	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0095 cm/cm	0.0095 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	ISO 527
	73.0 MPa	10600 psi	ASTM D 638
Tensile Strength, Yield	73.0 MPa	10600 psi	ASTM D 638
	73.0 MPa	10600 psi	ISO 527
Elongation at Break	7.6 %	7.6 %	ASTM D 638
	8.8 %	8.8 %	ISO 527
Elongation at Yield	6.3 %	6.3 %	ASTM D 638
	6.4 %	6.4 %	ISO 527
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 2.75 GPa	English 399 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	96.0 MPa	13900 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D 790
	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.39 J/cm @Temperature 23.0 Â°C	10.1 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	36.0 kJ/mÂ² @Temperature 23.0 Â°C	17.1 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.28	0.28	ASTM D 3702 Modified
Coefficient of Friction, Static	0.18	0.18	ASTM D 3702 Modified
K (wear) Factor	94.7 x 10 ⁻⁸ mmÂ³/N-M	47.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	27.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	49.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	27.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	50.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	27.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2

Thermal Properties	50.4 Åum/m-Å°C Metric	28.0 Åuin/in-Å°F English	Comments
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	203 Å°C	397 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	206 Å°C	403 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	187 Å°C	369 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	187 Å°C	369 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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