

SABIC Innovative Plastics LNP LUBRICOMP EX06405 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Lubricomp* EX06405 is a compound based on Polyetherimide resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated, Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EX06405-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
	1.53 g/cc	0.0553 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0042 cm/cm	0.0042 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	ISO 527
	122 MPa	17700 psi	ASTM D638
Tensile Strength, Yield	119 MPa	17300 psi	ISO 527
	122 MPa	17700 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Elongation at Yield	2.4 %	2.4 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Tensile Modulus	7.14 GPa	1040 ksi	1 mm/min; ISO 527

Mechanical Properties	7.58 GPa Metric	1100 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	151 MPa	21900 psi	ASTM D790
	169 MPa	24500 psi	ISO 178
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
	6.90 GPa	1000 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.91 J/cm	9.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.43	0.43	ASTM D3702 Modified
Coefficient of Friction, Static	0.51	0.51	ASTM D3702 Modified
K (wear) Factor	139 x 10 ⁻⁸ mm ³ /N-M	69.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 Åµm/m-Å°C	19.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	36.0 Åµm/m-Å°C	20.0 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	36.0 Åµm/m-Å°C	20.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	37.0 Åµm/m-Å°C	20.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	211 Å°C	412 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	208 Å°C	406 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	202 Â°C	396 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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