

SABIC Innovative Plastics LNP LUBRICOMP EP003 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Lubricomp EP003 is a Polyetherimide containing 15% PTFE/Silicone. Added features include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EP003-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	Type I, 5 mm/min; ASTM D638
	77.0 MPa	11200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	78.0 MPa	11300 psi	5 mm/min; ISO 527
	84.0 MPa	12200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.9 %	8.9 %	5 mm/min; ISO 527
	17 %	17 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.5 %	6.5 %	5 mm/min; ISO 527
	6.6 %	6.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.74 GPa	397 ksi	1 mm/min; ISO 527
	2.79 GPa	405 ksi	50 mm/min; ASTM D638
Flexural Strength	92.0 MPa	13300 psi	ISO 178
Flexural Modulus	2.63 GPa	381 ksi	2 mm/min; ISO 178
	2.83 GPa	410 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	0790 Comments
Izod Impact, Notched	0.660 J/cm	1.24 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.63 J/cm	12.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.22	0.22	ASTM D3702 Modified
Coefficient of Friction, Static	0.13	0.13	ASTM D3702 Modified
K (wear) Factor	52.4 x 10 ⁻⁸ mm ³ /N-M	26.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	27.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	51.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	28.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	189 Â°C	372 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/af
	193 Â°C @Thickness 3.20 mm	379 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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