

## SABIC Innovative Plastics LNP LUBRICOMP ECL36XXQ PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

LNP\* Lubricomp\* ECL36XXQ is a compound based on Polyetherimide containing 30% Carbon Fiber, 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-ECL36XXQ-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ECL36XXQ-PEI.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.00010 - 0.00050 cm/cm @Time 86400 sec	0.00010 - 0.00050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0010 - 0.0040 cm/cm @Time 86400 sec	0.0010 - 0.0040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	222 MPa	32200 psi	Type I, 5 mm/min; ASTM D638
	226 MPa	32800 psi	5 mm/min; ISO 527
Elongation at Break	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D638
	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	30.42 GPa	4412 ksi	1 mm/min; ISO 527
	32.86 GPa	4766 ksi	5 mm/min; ASTM D638
Flexural Strength	324 MPa	47000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	26.3 GPa	3810 ksi	1.3 mm/min, 50 mm span; ASTM D790
Poissons Ratio	0.43	0.43	ASTM E 132
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.13 J/cm	7.74 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Static	0.42	0.42	ASTM D3702 Modified
K (wear) Factor	44.3 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	22.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C @Thickness 3.20 mm	406 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

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