

SABIC Innovative Plastics LNP LUBRICOMP Lexan_LF1530A PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* Lexan_FL1530 compound is a 30% glass reinforced, 15% PTFE filled PC. Flame retardant and wear resistant. Tight tolerances.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LexanLF1530A-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0025 cm/cm @Thickness 3.20 mm	0.00050 - 0.0025 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0015 - 0.0035 cm/cm @Thickness 3.20 mm	0.0015 - 0.0035 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	113 MPa	16400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	113 MPa	16400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.41 GPa	1220 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.60 J/cm	10.5 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	18.0 J @Temperature 23.0 Â°C	13.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C @Temperature -40.0 -	14.0 Âµin/in-Â°F @Temperature -40.0 -	ASTM E 831

Thermal Properties	40.0 Å°C Metric	104 Å°F English	Comments
CTE, linear, Transverse to Flow	50.4 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	28.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	135 Å°C @Thickness 3.20 mm	275 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 Å°C @Thickness 3.20 mm	264 Å°F @Thickness 0.126 in	unannealed; ASTM D648
UL RTI, Electrical	80.0 Å°C	176 Å°F	UL 746B
UL RTI, Mechanical with Impact	80.0 Å°C	176 Å°F	UL 746B
UL RTI, Mechanical without Impact	80.0 Å°C	176 Å°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

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