

SABIC Innovative Plastics LNP LUBRICOMP Lexan_LF1520A PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* Lexan_LF1520A compound is a 20% 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-LexanLF1520A-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm @Thickness 3.20 mm	0.0015 - 0.0025 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0020 - 0.0045 cm/cm @Thickness 3.20 mm	0.0020 - 0.0045 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.0 MPa	13500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	93.0 MPa	13500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	148 MPa	21500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.20 GPa	899 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	17.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	52.2 Âµm/m-Â°C	29.0 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
	@ Temperature -40.0 - 40.0 Â°C	@ Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	133 Â°C @Thickness 3.20 mm	271 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 Â°C @Thickness 3.20 mm	262 Â°F @Thickness 0.126 in	unannealed; ASTM D648
UL RTI, Electrical	80.0 Â°C	176 Â°F	UL 746B
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	UL 746B
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.49 mm	V-0 @Thickness 0.0587 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
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	0.00 - 15 arcs	0.00 - 15 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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