

SABIC Innovative Plastics LNP LUBRICOMP Lexan_LF1510A PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* Lexan_LF1510A compound is a 10% 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-LexanLF1510A-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Thickness 3.20 mm	0.0020 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0035 - 0.0050 cm/cm @Thickness 3.20 mm	0.0035 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.1 g/10 min @Load 1.20 kg, Temperature 300 Â°C	8.1 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	117 MPa	17000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.07 J/cm	9.50 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
	36.0 Âµm/m-Â°C	20.0 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	54.0 Âµm/m-Â°C	30.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	132 Â°C	270 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	126 Â°C	259 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
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	V-0	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	

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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