

LNP™ LUBRICOMP™ Lexan_LF1510A

compound

Polycarbonate

SABIC Innovative Plastics

Message:

10% glass reinforced/15% PTFE filled PC. Flame retardant and wear resistant. Tight tolerances.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Good wear resistance		
	Lubrication		
	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.1	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.20 - 0.30	%	Internal method
Transverse flow: 3.20mm	0.35 - 0.50	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	72.4	MPa	ASTM D638
Fracture	72.4	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	7.0	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	3790	MPa	ASTM D790
Flexural Strength ⁴ (Break, 50.0 mm Span)	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Unnotched Izod Impact (23°C)	510	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	16.9	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	133	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	127	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831

Flow: -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	5.4E-5	cm/cm/°C	ASTM E831
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	80.0	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
NOTE			
1.	Type 1, 5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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