

LNP™ LUBRICOMP™ Lexan_LF1520A

compound

Polycarbonate

SABIC Innovative Plastics

Message:

20% glass reinforced/15% PTFE filled PC. Flame retardant and wear resistant. Tight tolerances.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Good wear resistance		
	Lubrication		
	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	0.15 - 0.25	%	Internal method
Transverse flow: 3.20mm	0.20 - 0.45	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	93.1	MPa	ASTM D638
Fracture	93.1	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield	5.0	%	ASTM D638
Fracture	5.0	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	6210	MPa	ASTM D790
Flexural Strength ⁴ (Break, 50.0 mm Span)	148	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C)	530	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	17.6	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	128	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831

Lateral: -40 to 40°C	5.2E-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
Arc Resistance ⁵	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 4		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		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		
5.	Tungsten electrode		

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