

LNP™ LUBRICOMP™ Lexan_LF1510A

compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP LEXAN_LF1510A compound is a 10% glass reinforced, 15% PTFE filled PC. Flame retardant and wear resistant. Tight tolerances.

General Information			
UL YellowCard	E121562-220958		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
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 : 3.20 mm	0.20 to 0.30	%	
Across Flow : 3.20 mm	0.35 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	72.4	MPa	
Break	72.4	MPa	
Tensile Elongation ²			ASTM D638
Yield	7.0	%	
Break	7.0	%	
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, 3.20 mm	133	°C	

1.8 MPa, Unannealed, 3.20 mm	127	°C	
CLTE			ASTM E831
Flow : -40 to 40°C	3.6E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.4E-5	cm/cm/°C	
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	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
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	266 to 288	°C	
Middle Temperature	277 to 299	°C	
Front Temperature	288 to 310	°C	
Nozzle Temperature	282 to 304	°C	
Processing (Melt) Temp	288 to 310	°C	
Mold Temperature	71.1 to 93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
NOTE			
1.	Type I, 5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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