

LNP™ LUBRICOMP™ Lexan_LF1520A

compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP LEXAN_LF1520A compound is a 20% glass reinforced, 15% PTFE filled PC. Flame retardant and wear resistant. Tight tolerances.

General Information			
UL YellowCard	E121562-220960		
Filler / Reinforcement	Glass Fiber,20% 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	1.47	g/cm³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.15 to 0.25	%	
Across Flow : 3.20 mm	0.20 to 0.45	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	93.1	MPa	
Break	93.1	MPa	
Tensile Elongation ²			ASTM D638
Yield	5.0	%	
Break	5.0	%	
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, 3.20 mm	133	°C	
1.8 MPa, Unannealed, 3.20 mm	128	°C	

CLTE			ASTM E831
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.2E-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
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
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		
5.	Tungsten Electrode		

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