LNP™ LUBRICOMP™ Lexan_LF1520A compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP LEXAN_FL1520 compound is a 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		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.47	g/cm³	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
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 60	%	
Rear Temperature	266 - 288	°C	
Middle Temperature	277 - 299	°C	
Front Temperature	288 - 310	°C	
Nozzle Temperature	282 - 304	°C	
Processing (Melt) Temp	288 - 310	°C	
Mold Temperature	71.1 - 93.3	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.025 - 0.076	mm	
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		

Recommended distributors for this material

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