LNP™ THERMOCOMP™ Lexan_LGN2000A compound

Polycarbonate

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP LEXAN_LGN2000A compound is a 20% glass reinforced PC, high flow. UL rated V-0. Consumer Electronics applications.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	High Flow		
Uses	Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.35	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.15 to 0.25	%	
Across Flow : 3.20 mm	0.25 to 0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	81.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	4.9	%	ASTM D638
Flexural Modulus [3] (50.0 mm Span)	5030	MPa	ASTM D790
Flexural Strength [4] (Break, 50.0 mm Span)	124	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C)	400	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	14.2	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	141	°C	
1.8 MPa, Unannealed, 3.20 mm	135	°C	
Vicat Softening Temperature	144	°C	ASTM D1525 [5]
CLTE			ASTM E831
Flow : -40 to 40°C	2.3E-5	cm/cm/°C	
Flow : -40 to 95°C	2.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	4.9E-5	cm/cm/°C	
Transverse : -40 to 95°C	5.6E-5	cm/cm/°C	

RTI Elec	120	°C	UL 746
RTI Imp	120	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance [6]	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 3		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4		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	271 to 293	°C	
Middle Temperature	282 to 304	°C	
Front Temperature	293 to 316	°C	
Nozzle Temperature	288 to 310	°C	
Processing (Melt) Temp	293 to 316	°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.	Rate B (120°C/h), Loading 2 (50 N)		
6.	Tungsten Electrode		

Recommended distributors for this material

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