

LNP™ THERMOCOMP™ Lexan_LGK5030

compound

Polycarbonate
SABIC Innovative Plastics

Message:
LNP THERMOCOMP LEXAN_LGN5030 compound is a glass reinforced. Flame retardant.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
Processing Method	Injection Molding		
Multi-Point Data	Flexural DMA (ASTM D4065)		
	Pressure-Volume-Temperature (PVT - Zoller Method)		
	Tensile Creep (ASTM D2990)		
	Tensile Fatigue		
	Tensile Stress vs. Strain (ASTM D638)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		
	Viscosity vs. Shear Rate (ASTM D3835)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.050 to 0.25	%	
Across Flow : 3.20 mm	0.10 to 0.30	%	
Water Absorption (24 hr)	0.14	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	142	MPa	ASTM D638
Tensile Elongation ² (Break)	4.0	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	10700	MPa	ASTM D790
Flexural Strength ⁴ (Break, 50.0 mm Span)	187	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	144	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 30°C	2.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength (3.20 mm, in Oil)	16	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.47 mm	V-1		
2.79 mm	V-0		
3.61 mm	5VA		
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	293 to 316	°C	
Middle Temperature	304 to 327	°C	
Front Temperature	316 to 338	°C	
Nozzle Temperature	310 to 332	°C	
Processing (Melt) Temp	316 to 338	°C	
Mold Temperature	82.2 to 116	°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, 50 mm/min		
2.	Type I, 50 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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