

LNP™ THERMOCOMP™ Lexan_LGK3020

compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LEXAN_LGK3020 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)		
	Tensile Creep (ASTM D2990)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.050 to 0.25	%	
Across Flow : 3.20 mm	0.15 to 0.35	%	
Water Absorption (24 hr)	0.13	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	118	MPa	ASTM D638
Tensile Elongation ² (Break)	4.0	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	6580	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)	120	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	146	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 30°C	2.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.7E-5	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.20 mm, in Oil)	18	kV/mm	ASTM D149

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94

Injection	Nominal Value	Unit	
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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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