

LNP™ THERMOCOMP™ Lexan_LGK5030

compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP THERMOCOMP LEXAN_LGK5020 compound is a glass reinforced, flame retardant material.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Flame retardancy		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	0.050 - 0.25	%	Internal method
Transverse flow: 3.20mm	0.10 - 0.30	%	Internal method
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
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	2.2E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	4.0E-5	cm/cm/°C	ASTM D696
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		UL 94
2.79 mm	V-0		UL 94
3.61 mm	5VA		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	293 - 316	°C
Middle Temperature	304 - 327	°C
Front Temperature	316 - 338	°C
Nozzle Temperature	310 - 332	°C
Processing (Melt) Temp	316 - 338	°C
Mold Temperature	82.2 - 116	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	40 - 70	rpm
Vent Depth	0.025 - 0.076	mm

NOTE

1. Type 1, 50mm/min
2. Type 1, 50mm/min
3. 1.3 mm/min
4. 1.3 mm/min

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