

LNP™ THERMOCOMP™ Lexan_LGK5030

compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

Glass reinforced. Flame retardant.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
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		
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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