

LNP™ THERMOCOMP™ Lexan_LGK3020

compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP THERMOCOMP LEXAN_LGK3020 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	1.43	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow: 3.20mm	0.050 - 0.25	%	Internal method
Transverse flow: 3.20mm	0.15 - 0.35	%	Internal method
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
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	2.7E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	4.7E-5	cm/cm/°C	ASTM D696
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	
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 |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

