

SABIC Innovative Plastics LNP THERMOCOMP Lexan_LGK5030 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* Lexan_LGK5020 compound is a glass reinforced, flame retardant material.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanLGK5030-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ASTM D792
Water Absorption	0.14 % @Time 86400 sec	0.14 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.00050 - 0.0025 cm/cm @Thickness 3.20 mm	0.00050 - 0.0025 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	142 MPa	20600 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.7 GPa	1550 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	12.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
CTE, linear, Transverse to Flow	39.6 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	22.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	143 $\text{Å}^\circ\text{C}$ @Thickness 6.40 mm	289 $\text{Å}^\circ\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.47 mm	@Thickness 0.0579 in	UL 94
	V-0	V-0	UL 94
	@Thickness 2.79 mm	@Thickness 0.110 in	
	5VA	5VA	UL 94
	@Thickness 3.60 mm	@Thickness 0.142 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	16.3 kV/mm	414 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	

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