LEXAN™ FR Resin LGK4030

DESCRIPTION

LGK4030 is based on Polycarbonate containing 40% of glass fiber and glass flakes. Added feature includes Dimensional Stability and Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yield	129	MPa	SABIC - Japan Method
Tensile Strain, break	3 – 5	%	SABIC - Japan Method
Flexural Stress	180	MPa	ASTM D790
Flexural Modulus	8820	MPa	ASTM D790
Hardness, Rockwell M	91	-	ASTM D785
IMPACT [1]			
Izod Impact, notched, 23°C	107	J/m	ASTM D256
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	145	°C	ASTM D648
CTE, -30°C to 30°C	0.000022 – 0.000043	1/°C	TMA
PHYSICAL [1]			
Specific Gravity	1.54	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.14	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm [2]	0.15 – 0.2	%	SABIC method
ELECTRICAL [1]			
Surface Resistivity	1.E+16	Ω	ASTM D257
FLAME CHARACTERISTICS [3]			
UL Yellow Card Link	E45587-236911	-	-
UL Recognized, 94V-0 Flame Class Rating	≥1.5	mm	UL 94

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.,The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(3) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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