

LEXAN™ FR Resin LGK3020

PC-(GF+GS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LEXAN LGK3020 compound is based on Polycarbonate (PC) resin containing 20% glass fiber and 10% glass flake. Added features of this grade include: Flame Retardant.

UL Yellow Card Link [E45587-236909](https://www.ul.com/yellow-card/E45587-236909)

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Break	117	MPa	ASTM D 638
Elongation at Break	4	%	ASTM D 638
Flexural Modulus	6570	MPa	ASTM D 790
Izod Impact notched, 1/8 in	122	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	27	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	46.8	E-6/K	ASTM D 696

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	17.7	kV/mm	ASTM D 149

Other properties	Value	Unit	Test Standard
Density	1430	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	315 - 340	°C	-
Mold temperature	80 - 115	°C	-
Zone 1	295 - 315	°C	-
Zone 2	305 - 325	°C	-
Zone 3	315 - 340	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific