

LEXAN™ FR Resin LF1520A

(PC+PTFE)-GF20

Saudi Basic Industries Corporation (SABIC)

Product Texts

LEXAN LF1520A is a compound based on Polycarbonate (PC) resin containing 20% glass fiber and 15% PTFE. Added features of this material include: flame retardant, wear resistant and tight tolerance.

UL Yellow Card Link1: [E121562-220960](#)

UL Yellow Card Link2: [E207780-228438](#)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0032	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	93	MPa	ASTM D 638
Tensile Strength at Break	93	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	6200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	112	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	534	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	30.6	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	52.2	E-6/K	ASTM D 696
DTUL @ 66 psi	133	°C	ASTM D 648
DTUL @ 264 psi	128	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	212	-	IEC 60112
ASTM Data			
Arc Resistance	150	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	1470	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	290 - 310	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	265 - 290	°C	-
Zone 2	275 - 300	°C	-
Zone 3	290 - 310	°C	-
Nozzle temperature	280 - 305	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical

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Additives

Lubricants

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Special Characteristics

Flame retardant