

**LEXAN™ FR Resin JK2500**

(PC+ABS)-CF20

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LEXAN JK2500 compound is based on Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend containing 20% carbon fiber. Added features of this grade include: Electrically Conductive, EMI/RFI Shielding Effectiveness of 21 dB at 1.5 mm, Non-Brominated, Non-Chlorinated Flame Retardant.

UL Yellow Card Link [F207780-228503](https://www.ul.com/yellow-card-link/F207780-228503)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	25	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	11100	MPa	ISO 527
Yield stress	63	MPa	ISO 527
Yield strain	2.2	%	ISO 527
Stress at break	63	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus	10100	MPa	ISO 178
Izod impact strength, +23°C, 4mm	15	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	11030	MPa	ASTM D 638
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	63	MPa	ASTM D 638
Elongation at Yield	2.3	%	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	9230	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	224	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, 120°C/h 50N	100	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	98	°C	ASTM D 648
DTUL @ 264 psi	93	°C	ASTM D 648
Vicat Temperature	111	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	10000	Ohm	ASTM D 257
Volume Resistivity	100	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1310	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	270 - 310	°C	-
Mold temperature	50 - 95	°C	-
Zone 1	260 - 275	°C	-
Zone 2	270 - 290	°C	-

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Zone 3	<b>270 - 300</b>	°C	-
Screw speed	<b>35 - 75</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Increased electrical conductivity, Flame retardant

**Features**

EMI Attenuation/Shielding

**Regional Availability**

North America, Europe, Asia Pacific