

Product Texts

Lexan* EXL5429S polycarbonate (PC) resin is a GF reinforced, UV stabilized, flame retardant injection molding copolymer blend. This medium flow resin features (all color rating) UL94 V0 @ 1.5mm flame, RTI(elec.) 130C, based on non-chlorine, non-bromine FR agents with excellent processability and improved release performance. Available in custom opaque colors.

UL Yellow Card Link [F45329-103983721](https://www.ul.com/yellow-card/F45329-103983721)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15	cm ³ /10min	ISO 1133
Temperature	330	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3600	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	7	%	ISO 527
Flexural modulus	3300	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	12	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	70	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	10	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3500	MPa	ASTM D 638
Tensile Strength at Yield	57	MPa	ASTM D 638
Tensile Strength at Break	45	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	7	%	ASTM D 638
Flexural Modulus	3200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	120	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	145	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	154	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 50N	156	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	3.0	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	800	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1	mm	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-
ASTM Data			
DTUL @ 66 psi	154	°C	ASTM D 648
DTUL @ 264 psi	145	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1

LEXAN™ Copolymer EXL5429S - Americas

PC-GF

Saudi Basic Industries Corporation (SABIC)

Comparative tracking index	175	-	IEC 60112
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Other properties	Value	Unit	Test Standard
Density	1260	kg/m ³	ISO 1183

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	310 - 330	°C	-
Mold temperature	80 - 115	°C	-
Zone 1	290 - 310	°C	-
Zone 2	300 - 320	°C	-
Zone 3	310 - 330	°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