

**Product Texts**

LEXAN EXL1613T polycarbonate (PC) siloxane copolymer resin is a transparent injection molding grade. This resin offers extreme low temperature ductility in combination with medium flow characteristics and excellent processability with opportunities for shorter IM cycle times compared to standard PC. LEXAN EXL1613T resin is a general purpose product available in transparent and opaque colors and is an excellent candidate for a broad range of applications.

UL Yellow Card Link [E207780-103932491](https://www.ulprospector.com/2020/03/24/2020-03-24-103932491)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	7.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	8	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	5.7	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2100	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	95	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C, 3mm	95	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	70	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	20	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	130	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	62	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	20	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2100	MPa	ASTM D 638
Tensile Strength at Yield	57	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	5.9	%	ASTM D 638
Elongation at Break	58	%	ASTM D 638
Flexural Modulus	2012	MPa	ASTM D 790
Izod Impact notched, 1/8 in	900	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	690	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	122	°C	ISO 75-1/-2
Vicat softening temperature, B	142	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	143	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	122	°C	ASTM D 648
Vicat Temperature	150	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1E15	Ohm	ASTM D 257
Volume Resistivity	1E15	Ohm*cm	ASTM D 257

**LEXAN™ Copolymer EXL1613T - Asia**

PC

Saudi Basic Industries Corporation (SABIC)

Other properties	Value	Unit	Test Standard
Humidity absorption	<b>0.04</b>	%	Sim. to ISO 62
Density	<b>1180</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1180</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>300 - 330</b>	°C	-
Mold temperature	<b>80 - 115</b>	°C	-
Zone 1	<b>285 - 305</b>	°C	-
Zone 2	<b>295 - 315</b>	°C	-
Zone 3	<b>305 - 330</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

Transparent

**Regional Availability**

Asia Pacific