

Product Texts

LEXAN EXL9111 polycarbonate-Siloxane copolymer resin is a high flow, high impact, non-chlorinated, non-brominated flame retardant opaque injection molding (IM) grade.

UL Yellow Card Link [E207780-103826700](https://www.ul.com/yellowcard/E207780-103826700)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	20	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.62	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2350	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	46.7	%	ISO 527
Flexural modulus	2310	MPa	ISO 178
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	51.3	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	104	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	2387	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	4.6	%	ASTM D 638
Elongation at Break	76.4	%	ASTM D 638
Flexural Modulus	2440	MPa	ASTM D 790
Rockwell Hardness	L92.2	-	ASTM D 785
Izod Impact notched, 1/8 in	753	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	124	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	103	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	112	°C	ISO 75-1/-2
Vicat softening temperature, B	117	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	119	°C	ISO 306
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	0.8	mm	-

ASTM Data	Value	Unit	Test Standard
DTUL @ 66 psi	111	°C	ASTM D 648
DTUL @ 264 psi	101	°C	ASTM D 648
Vicat Temperature	126	°C	ASTM D 1525

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

Other properties	Value	Unit	Test Standard
Humidity absorption	0.43	%	Sim. to ISO 62
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	260 - 285	°C	-
Zone 2	275 - 295	°C	-
Zone 3	280 - 305	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

Asia Pacific