

Product Texts

LEXAN BX7241 Polycarbonate (PC) is an injection moldable non-chlorinated/brominated, unfilled flame retardant grade that has good impact and processability. It has an MVR of 18 (260°C/2.16kg), UL94 V0@0.6mm, 5VA at 3.0mm rating and can be ideal for thin wall applications.

UL Yellow Card Link [E207780-1020](https://www.ul.com/yellow-card/E207780-1020)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	18	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	4.2	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2600	MPa	ISO 178
Charpy notched impact strength, +23°C	37	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	28	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2500	MPa	ASTM D 638
Tensile Strength at Yield	67	MPa	ASTM D 638
Tensile Strength at Break	65	MPa	ASTM D 638
Elongation at Yield	4.4	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2450	MPa	ASTM D 790
Izod Impact notched, 1/8 in	690	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	190	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Vicat softening temperature, B	109	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	112	°C	ISO 306
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.2	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	0.75	mm	-
Glow Wire Ignition Temperature (GWIT)	800	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1	mm	-
Glow Wire Ignition Temperature (GWIT)	825	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-
ASTM Data			
DTUL @ 66 psi	103	°C	ASTM D 648
DTUL @ 264 psi	93	°C	ASTM D 648
Vicat Temperature	111	°C	ASTM D 1525
Electrical properties			
ASTM Data			

Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	0.2	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 300	°C	-
Mold temperature	60 - 85	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	230 - 280	°C	-
Zone 2	240 - 290	°C	-
Zone 3	250 - 300	°C	-

Characteristics

Processing

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Regional Availability

Asia Pacific