

**Product Texts**

LEXAN LUX7632C Polycarbonate (PC) resin is a non-filled, extrudable grade. This non-chlorinated, non-brominated flame retardant PC has an UL-94 V0 rating at 1.0 mm / 5VA rating at 3.0mm and is UV stabilized(F1 rating) providing additional weathering capability. LEXAN LUX7632C is available in diffusion colors.

UL Yellow Card Link [F121562-101256949](https://www.ul.com/lexan-lux7632c)

| <b>Processing/Physical Characteristics</b> | <b>Value</b> | <b>Unit</b>            | <b>Test Standard</b> |
|--|--------------|------------------------|----------------------|
| <b>ISO Data</b>                            |              |                        |                      |
| Melt volume-flow rate, MVR                 | 5            | cm <sup>3</sup> /10min | ISO 1133             |
| Temperature                                | 300          | °C                     | -                    |
| Load                                       | 1.2          | kg                     | -                    |
| <b>ASTM Data</b>                           |              |                        |                      |
| Melt Flow Index, MFI                       | 5            | g/10min                | ASTM D 1238          |
| Temperature                                | 300          | °C                     | -                    |
| Load                                       | 1.2          | kg                     | -                    |
| <b>Mechanical properties</b>               |              |                        |                      |
| <b>ISO Data</b>                            |              |                        |                      |
| Tensile Modulus                            | 2400         | MPa                    | ISO 527              |
| Yield stress                               | 67           | MPa                    | ISO 527              |
| Yield strain                               | 6            | %                      | ISO 527              |
| Stress at break                            | 52           | MPa                    | ISO 527              |
| Strain at break                            | 23           | %                      | ISO 527              |
| Flexural modulus                           | 2500         | MPa                    | ISO 178              |
| Charpy impact strength, +23°C, 3mm         | N            | kJ/m <sup>2</sup>      | ISO 179/1eU          |
| Charpy impact strength, -30°C, 3mm         | N            | kJ/m <sup>2</sup>      | ISO 179/1eU          |
| Charpy notched impact strength, +23°C, 3mm | 10           | kJ/m <sup>2</sup>      | ISO 179/1eA          |
| Charpy notched impact strength, -30°C, 3mm | 9            | kJ/m <sup>2</sup>      | ISO 179/1eA          |
| Izod impact strength, +23°C                | N            | kJ/m <sup>2</sup>      | ISO 180/1U           |
| Izod notched impact strength, +23°C, 3mm   | 10           | kJ/m <sup>2</sup>      | ISO 180/1A           |
| Izod notched impact strength, -30°C, 3mm   | 9            | kJ/m <sup>2</sup>      | ISO 180/1A           |
| <b>ASTM Data</b>                           |              |                        |                      |
| Tensile Modulus                            | 2500         | MPa                    | ASTM D 638           |
| Tensile Strength at Yield                  | 68           | MPa                    | ASTM D 638           |
| Tensile Strength at Break                  | 52           | MPa                    | ASTM D 638           |
| Elongation at Yield                        | 6            | %                      | ASTM D 638           |
| Elongation at Break                        | 51           | %                      | ASTM D 638           |
| Flexural Modulus                           | 2400         | MPa                    | ASTM D 790           |
| Izod Impact notched, 1/8 in                | 100          | J/m                    | ASTM D 256           |
| Izod Impact notched, Low-Temperature       | 85           | J/m                    | ASTM D 256           |
| Temperature                                | -30          | °C                     | -                    |
| Izod Impact unnotched, 1/8 in              | N            | J/m                    | ASTM D 256           |
| <b>Thermal properties</b>                  |              |                        |                      |
| <b>ISO Data</b>                            |              |                        |                      |
| Vicat softening temperature, B             | 137          | °C                     | ISO 306              |
| Vicat softening temperature, 120°C/h 50N   | 139          | °C                     | ISO 306              |
| Burning behav. at thickness h              | V-2          | class                  | IEC 60695-11-10      |
| Thickness tested                           | 0.4          | mm                     | -                    |
| Burning behav. 5V at thickness h           | 5VA          | 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)      | 875          | °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                     | -                    |
| <b>ASTM Data</b>                           |              |                        |                      |
| DTUL @ 66 psi                              | 131          | °C                     | ASTM D 648           |

**LEXAN™ VISUALFX™ Resin LUX7632C - Americas**

PC

Saudi Basic Industries Corporation (SABIC)

|                   |            |    |             |
|-------------------|------------|----|-------------|
| DTUL @ 264 psi    | <b>120</b> | °C | ASTM D 648  |
| Vicat Temperature | <b>136</b> | °C | ASTM D 1525 |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Water absorption        | <b>0.14</b>  | %                 | Sim. to ISO 62       |
| Humidity absorption     | <b>0.11</b>  | %                 | Sim. to ISO 62       |
| Density                 | <b>1200</b>  | kg/m <sup>3</sup> | ISO 1183             |
| Density                 | <b>1190</b>  | kg/m <sup>3</sup> | ASTM D 792           |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>     | <b>Unit</b> | <b>Test Standard</b> |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>120</b>       | °C          | -                    |
| Pre-drying - Time                                  | <b>3 - 4</b>     | h           | -                    |
| Processing humidity                                | <b>≤0.02</b>     | %           | -                    |
| Melt temperature                                   | <b>290 - 310</b> | °C          | -                    |
| Mold temperature                                   | <b>70 - 95</b>   | °C          | -                    |
| Zone 1   | <b>265 - 290</b> | °C          | -                    |
| Zone 2   | <b>275 - 300</b> | °C          | -                    |
| Zone 3   | <b>290 - 310</b> | °C          | -                    |
| Screw speed  | <b>40 - 70</b>   | rpm         | -                    |
| Back pressure                                      | <b>0.3 - 0.7</b> | MPa         | -                    |

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant

**Additives**

Flame retarding agent

**Regional Availability**

North America