

**Product Texts**

LEXAN LUX7432C Polycarbonate (PC) resin is a non-filled, injection moldable grade. This non-chlorinated, non-brominated flame retardant PC has an UL-94 V0 rating at 1.2 mm / 5VA rating at 3.0mm and is UV stabilized(F1 rating) providing additional weathering capability. LEXAN LUX7432C is available in diffusion colors.

UL Yellow Card Link [F45329-101256956](https://www.ul.com/yellow-card-link/F45329-101256956)

| Processing/Physical Characteristics | Value | Unit                   | Test Standard |
|-------------------------------------|-------|------------------------|---------------|
| <b>ISO Data</b>                     |       |                        |               |
| Melt volume-flow rate, MVR          | 9     | cm <sup>3</sup> /10min | ISO 1133      |
| Temperature                         | 300   | °C                     | -             |
| Load                                | 1.2   | kg                     | -             |
| <b>ASTM Data</b>                    |       |                        |               |
| Melt Flow Index, MFI                | 10    | g/10min                | ASTM D 1238   |
| Temperature                         | 300   | °C                     | -             |
| Load                                | 1.2   | kg                     | -             |

| Mechanical properties                      | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                            |       |                   |               |
| Tensile Modulus                            | 2350  | MPa               | ISO 527       |
| Yield stress                               | 66    | MPa               | ISO 527       |
| Yield strain                               | 6     | %                 | ISO 527       |
| Stress at break                            | 53    | MPa               | ISO 527       |
| Strain at break                            | 50    | %                 | ISO 527       |
| Flexural modulus                           | 2450  | 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 | 7     | 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   | 9     | kJ/m <sup>2</sup> | ISO 180/1A    |
| Izod notched impact strength, -30°C, 3mm   | 8     | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                           |       |                   |               |
| Tensile Modulus                            | 2520  | MPa               | ASTM D 638    |
| Tensile Strength at Yield                  | 67    | MPa               | ASTM D 638    |
| Tensile Strength at Break                  | 55    | MPa               | ASTM D 638    |
| Elongation at Yield                        | 6     | %                 | ASTM D 638    |
| Elongation at Break                        | 55    | %                 | ASTM D 638    |
| Flexural Modulus                           | 2450  | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in                | 100   | J/m               | ASTM D 256    |
| Izod Impact notched, Low-Temperature       | 81    | 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   |
|--|-------|-------|-----------------|
| <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 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      |
| DTUL @ 264 psi                           | 120   | °C    | ASTM D 648      |
| Vicat Temperature                        | 136   | °C    | ASTM D 1525     |

| Other properties    | Value       | Unit              | Test Standard  |
|---------------------|-------------|-------------------|----------------|
| Water absorption    | <b>0.13</b> | %                 | Sim. to ISO 62 |
| Humidity absorption | <b>0.1</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     |

| 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>280 - 305</b> | °C   | -             |
| Mold temperature                            | <b>70 - 95</b>   | °C   | -             |
| Zone 1                                      | <b>260 - 280</b> | °C   | -             |
| Zone 2                                      | <b>270 - 295</b> | °C   | -             |
| Zone 3                                      | <b>280 - 305</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**

Europe