

## SABIC Innovative Plastics Lexan® EX7631T PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

EX7631T is a high UVA content homopolymer polycarbonate product intended for use as a cap layer for polycarbonate sheet extrusion.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-EX7631T-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-EX7631T-PC.php)

| Physical Properties         | Metric                                                | English                                               | Comments     |
|-----------------------------|-------------------------------------------------------|-------------------------------------------------------|--------------|
| Specific Gravity            | 1.20 g/cc                                             | 1.20 g/cc                                             | ASTM D792    |
| Density                     | 1.20 g/cc                                             | 0.0434 lb/in <sup>3</sup>                             | ISO 1183     |
| Linear Mold Shrinkage, Flow | 0.0096 cm/cm<br>@Thickness 3.20 mm                    | 0.0096 in/in<br>@Thickness 0.126 in                   | SABIC Method |
| Melt Flow                   | 10.5 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 °C | 10.5 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 °F | ASTM D1238   |

| Mechanical Properties     | Metric                              | English                                | Comments                          |
|---------------------------|-------------------------------------|----------------------------------------|-----------------------------------|
| Tensile Strength at Break | 60.0 MPa                            | 8700 psi                               | Type I, 50 mm/min; ASTM D638      |
| Tensile Strength, Yield   | 70.0 MPa                            | 10200 psi                              | Type I, 50 mm/min; ASTM D638      |
| Elongation at Break       | 88.1 %                              | 88.1 %                                 | Type I, 50 mm/min; ASTM D638      |
| Elongation at Yield       | 5.4 %                               | 5.4 %                                  | Type I, 50 mm/min; ASTM D638      |
| Tensile Modulus           | 2.45 GPa                            | 355 ksi                                | 5 mm/min; ASTM D638               |
| Flexural Yield Strength   | 113 MPa                             | 16400 psi                              | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus          | 2.58 GPa                            | 374 ksi                                | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched      | 0.770 J/cm                          | 1.44 ft-lb/in                          | ASTM D256                         |
|                           | 0.730 J/cm<br>@Temperature -30.0 °C | 1.37 ft-lb/in<br>@Temperature -22.0 °F | ASTM D256                         |
| Dart Drop, Total Energy   | 72.0 J<br>@Temperature 23.0 °C      | 53.1 ft-lb<br>@Temperature 73.4 °F     | ASTM D3763                        |

| Thermal Properties | Metric       | English        | Comments |
|--------------------|--------------|----------------|----------|
|                    | 60.0 µm/m-°C | 33.3 µin/in-°F |          |

| CTE, linear, Parallel to Flow<br>Thermal Properties | Metric<br>@ Temperature -40.0 -<br>40.0 °C      | English<br>@ Temperature -40.0 -<br>104 °F       | ASTM E 831<br>Comments |
|-----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|------------------------|
| CTE, linear, Transverse to Flow                     | 65.0 µm/m-°C<br>@Temperature -40.0 -<br>40.0 °C | 36.1 µin/in-°F<br>@Temperature -40.0 -<br>104 °F | ASTM E 831             |
| Deflection Temperature at 0.46 MPa<br>(66 psi)      | 127 °C<br>@Thickness 3.20 mm                    | 261 °F<br>@Thickness 0.126 in                    | unannealed; ASTM D648  |
| Deflection Temperature at 1.8 MPa<br>(264 psi)      | 116 °C<br>@Thickness 3.20 mm                    | 241 °F<br>@Thickness 0.126 in                    | unannealed; ASTM D648  |
| Vicat Softening Point                               | 132 °C                                          | 270 °F                                           | Rate B/50; ASTM D1525  |
|                                                     | 135 °C                                          | 275 °F                                           | Rate B/120; ISO 306    |

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