

## SABIC Innovative Plastics Lexan® ML6451 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

**Material Notes:**

UV-stabilized, co-extrusion capstock material. Minimal processing values available at this time.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-ML6451-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML6451-PC-Asia-Pacific.php)

| Physical Properties | Metric  | English   | Comments   |
|---------------------|---|---|------------|
| Specific Gravity    | 1.19 g/cc   | 1.19 g/cc   | ASTM D792  |
| 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 | 72.0 MPa   | 10400 psi     | Type I, 50 mm/min; ASTM D638      |
| Tensile Strength, Yield   | 71.0 MPa   | 10300 psi     | Type I, 50 mm/min; ASTM D638      |
| Elongation at Break       | 98 %       | 98 %          | Type I, 50 mm/min; ASTM D638      |
| Flexural Yield Strength   | 104 MPa    | 15100 psi     | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus          | 2.59 GPa   | 376 ksi       | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched      | 0.900 J/cm | 1.69 ft-lb/in | ASTM D256                         |

| Thermal Properties                             | Metric                       | English                       | Comments              |
|--|------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 114 °C<br>@Thickness 3.20 mm | 237 °F<br>@Thickness 0.126 in | unannealed; ASTM D648 |

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