

SABIC Innovative Plastics Lexan® ML1665 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML1665-PC-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|--|--------------|
| Specific Gravity | 1.21 g/cc | 1.21 g/cc | ASTM D792 |
| Water Absorption | 0.15 % @Time 86400 sec | 0.15 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm @Thickness 3.20 mm | 0.0050 - 0.0070 in/in @Thickness 0.126 in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|----------------------|
| Tensile Strength, Yield | 63.0 MPa | 9140 psi | SABIC - Japan Method |
| Elongation at Break | 220 % | 220 % | SABIC - Japan Method |
| Flexural Strength | 93.0 MPa | 13500 psi | ASTM D790 |
| Flexural Modulus | 2.15 GPa | 312 ksi | ASTM D790 |
| Izod Impact, Notched | 8.82 J/cm | 16.5 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--|---|---|-----------------------|
| CTE, linear | 70.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature -30.0 - 30.0 $^{\circ}\text{C}$ | 38.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature -22.0 - 86.0 $^{\circ}\text{F}$ | TMA |
| Deflection Temperature at 0.46 MPa (66 psi) | 134 $^{\circ}\text{C}$ @Thickness 3.20 mm | 273 $^{\circ}\text{F}$ @Thickness 0.126 in | unannealed; ASTM D648 |

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