

SABIC Innovative Plastics Lexan® SP7602 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-SP7602-PC-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|--|--------------|
| Specific Gravity | 1.28 g/cc | 1.28 g/cc | ASTM D792 |
| Water Absorption | 0.12 % @Time 86400 sec | 0.12 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0040 cm/cm @Thickness 3.20 mm | 0.0030 - 0.0040 in/in @Thickness 0.126 in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|---------------|----------------------|
| Tensile Strength, Yield | 82.0 MPa | 11900 psi | SABIC - Japan Method |
| Elongation at Break | 10 - 20 % | 10 - 20 % | SABIC - Japan Method |
| Flexural Strength | 120 MPa | 17400 psi | ASTM D790 |
| Flexural Modulus | 3.92 GPa | 569 ksi | ASTM D790 |
| Izod Impact, Notched | 0.880 J/cm | 1.65 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|-----------------------|
| CTE, linear | 40.0 - 60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -30.0 - 30.0 °C | 22.2 - 33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -22.0 - 86.0 °F | TMA |
| Deflection Temperature at 0.46 MPa (66 psi) | 100 °C @Thickness 3.20 mm | 212 °F @Thickness 0.126 in | unannealed; ASTM D648 |
| Flammability, UL94 | V-0 @Thickness 0.750 mm | V-0 @Thickness 0.0295 in | UL 94 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Surface Resistance | 1.00e+16 ohm | 1.00e+16 ohm | ASTM D257 |

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