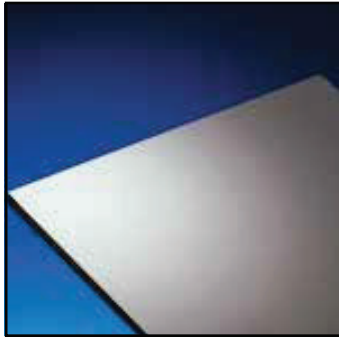




LEXAN 9034 / 9034V

Flame Resistant Polycarbonate



PRODUCT CAPABILITIES:

- Sheet Size: 1.0mm to 6.0mm

PRODUCT COLORS:

- Clear

ADVANTAGES:

- High Impact Strength
- Inherent "Crystal-Clear" Transparency
- Dimensional Stability at Elevated Temperatures
- Lightweight
- Formability
- FDA-Compliant
- Flame-Retardant

APPLICATIONS INCLUDE:

- Vertical Glazing
- Interior Applications
- Helmet and Riot Shields
- Safety Glazing
- Food and Medical

| GENERAL PROPERTIES | ASTM or UL Test | 9034 Typical Values | 9034V Typical Values |
|--|------------------|-------------------------|-------------------------|
| PHYSICAL | | | |
| Specific Gravity (g/cm ³) | ASTM D792 | 1.20 | 1.20 |
| Water Absorption, 24 hrs (%) | ASTM D570 | 0.15 | 0.15 |
| MECHANICAL | | | |
| Tensile Strength (psi) | ASTM D638 | 9,500 | 9,500 |
| Tensile Modulus (psi) | ASTM D638 | 345,000 | 345,000 |
| Tensile Elongation at Break (%) | – | – | – |
| Flexural Strength (psi) | ASTM D790 | 13500 | 13500 |
| Flexural Modulus (psi) | ASTM D790 | 345,000 | 345,000 |
| Compressive Strength (psi) | ASTM D695 | 12,500 | 12,500 |
| Compressive Modulus (psi) | ASTM D695 | 345,000 | 345,000 |
| Hardness, Rockwell | – | – | – |
| IZOD Notched Impact (ft-lb/in) | ASTM D256A | 12-16 | 12-16 |
| THERMAL | | | |
| Coeff. of Thermal Expansion(in/in/°F) | ASTM D696 | 3.75 x 10 ⁻⁵ | 3.75 x 10 ⁻⁵ |
| Heat Deflection Temp (°F) @ 264 psi | ASTM D648 | 270 | 266 |
| Glass Transition Temp (°F) | – | – | – |
| Max Operating Temp (°F) | – | – | – |
| Thermal Conductivity (Btu.in/hr.ft ² .°F) | ASTM C177 | 1.35 | 1.35 |
| Flammability Rating | UL94HB UL94V0 | – | PASS PASS |
| ELECTRICAL | | | |
| Dielectric Strength (volts/mil) | – | – | – |
| Dielectric Constant at 60 Hz | ASTM D150 | 3.17 | – |
| Volume Resistivity (ohm-cm) | ASTM D257 | 8.2 x 10 ¹⁶ | – |
| Surface Resistivity (ohm) | – | – | – |

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.