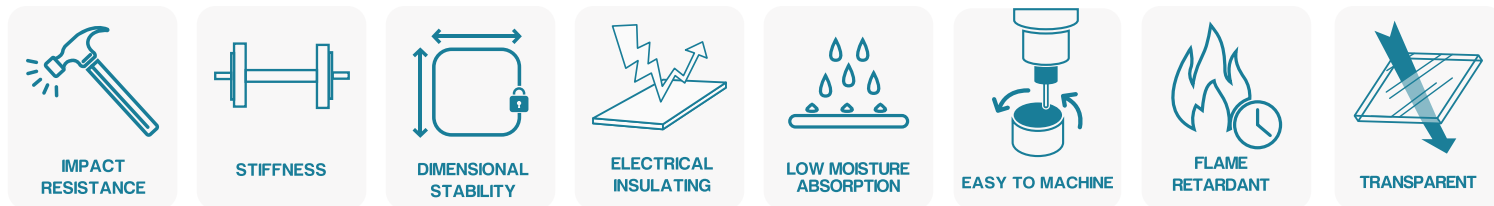


# ZELUX® W

## Window Grade

Zelux® is a Registered Trademark of Westlake Plastics Co.

**Zelux W is an optically clear engineering plastic with excellent dimensional stability and good strength and stiffness over a wide range of service temperatures. Zelux is used for a wide variety of electrical applications due to its low moisture absorption, good electrical insulating properties (Dielectric Strength 760 v/mil) and an excellent flammability rating (UL Yellow Card file E240206). Zelux is easy to fabricate, paint, and glue.**



The following physical property information is based on typical values of the resin.

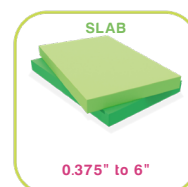
| Property   | Units      | Test Standard          | Zelux W<br>(compression molded sheet)<br>UV Stabilized |
|--|------------|------------------------|--|
| <b>Mechanical</b>                                  |            |                        |  |
| Flexural Modulus                                   | psi        | ASTM D790              | 328,000  |
| Flexural Strength @yield                           | psi        | ASTM D790              | 13,100   |
| Hardness   | M Scale    | ASTM D785              | M77  |
| Izod Impact Strength<br>Notched                    | ft-lbs/in  | ASTM D256              | 17.0   |
| Tensile Elongation<br>@break<br>@yield             | %<br>%     | ASTM D638<br>ASTM D638 | 140<br>6.0   |
| Tensile Strength<br>@break<br>@yield               | psi<br>psi | ASTM D638<br>ASTM D638 | 11,600<br>8,990  |
| <b>Thermal</b>                                     |            |                        |  |
| Coefficient of Thermal Expansion                   | in/in/°F   | ASTM D696              | 3.8x10 <sup>-5</sup>                                   |
| Flammability Rating @11.5mm*                       | —          | UL94                   | V-0  |
| Heat Deflection Temperature<br>@66 psi<br>@264 psi | °F<br>°F   | ASTM D648<br>ASTM D648 | 288<br>268   |
| <b>Electrical</b>                                  |            |                        |  |
| Dielectric Constant<br>@60Hz<br>@1MHz              | —<br>—     | ASTM D150<br>ASTM D150 | 2.95<br>2.90   |
| Dielectric Strength                                | V/mil      | ASTM D149              | 760**  |
| Volume Resistivity                                 | ohm-cm     | ASTM D257              | 3.0x10 <sup>18</sup>                                   |
| <b>Optical</b>                                     |            |                        |  |
| Haze   | %          | ASTM D1003             | 0.5-2.0  |
| Refractive Index                                   | —          | ASTM D542              | 1.585  |
| Light Transmittance @118mil                        | %          | ASTM D1003             | 88   |
| <b>Other</b>                                       |            |                        |  |
| Specific Gravity                                   | —          | ASTM D792              | 1.20   |
| Water Absorption @24 hours                         | %          | ASTM D570              | 0.2  |

\*Westlake Plastics UL Yellow Card file E240206 \*\*Slow rate to rise

### Applications Include:

- Transparent Impact Shields
- Transparent Fluid Handling Components
- Transparent Manifolds
- Transparent Impact resistant housings and Covers
- Transparent Prototyping Parts
- Electrical Insulating Components
- Metal Replacement / Weight Reduction

### Manufacturing Capabilities:



### Colors:

Clear

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