Plexiglas® V825T-LPL® Acrylic Resin
Light Transmission, Optimized.

Automotive OEMs have historically used distinctive forward lighting features to differentiate their vehicle brands. The proliferation of LED technology now allows designers to extend the length of LED-driven optics, create more distinctive designs, and minimize light transmission concessions.

Excellent optical performance. Fewer LEDs.

### Key Benefits
- **Power Savings**
- **Increased Design Freedom**
- **Long Service Life With High Output**
- **Excellent Optical Properties**
- **Improved Light Output**
- **Low Color Shift**

### HIGHER LIGHT TRANSMISSION
Using Plexiglas® V825T-LPL® acrylic resin increases the efficiency of lighting designs.

<table>
<thead>
<tr>
<th>Light Transmission (%)</th>
<th>Standard PMMA</th>
<th>Plexiglas® V825T-LPL®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 0.3 cm</td>
<td>92</td>
<td>92.5</td>
</tr>
<tr>
<td>Over 17 cm</td>
<td>76.6</td>
<td>82.1</td>
</tr>
</tbody>
</table>

### COLOR NEUTRALITY
Using Plexiglas® V825T-LPL® acrylic resin allows designers to create complex optical designs with maximum optical performance.

<table>
<thead>
<tr>
<th>Light Source</th>
<th>Δ CCT (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard PMMA</td>
<td>-1076</td>
</tr>
<tr>
<td>Plexiglas® V825T-LPL®</td>
<td>-486</td>
</tr>
</tbody>
</table>

(*) correlated color temperature (60 cm light pipes)

### IMPROVED LIGHT OUTPUT
By specifying Plexiglas® V825T-LPL® acrylic resin, lighting designers can create signature, long path length optics without great concern for transmission loss.

- **Light output through 60 cm of light pipe**
  - Plexiglas® V825T-LPL®: 150 lumens
  - Standard PMMA: 97 lumens

![Image of light transmission comparison]
LONG-LASTING OPTICAL PERFORMANCES

Parts molded from Plexiglas® V825T-LPL® acrylic resin exhibit excellent color stability and optical clarity, even when exposed to thermal and environmental stress over long periods.

Yellow Index (E313) – 3mm sample plaques

Arkema’s proprietary Plexiglas® LPL® acrylic resin technology reduces design limitations related to diminished light output and inconsistent color. Our technology permits lighting professionals to focus on creating elegant signature lenses and optics that embody their brand’s unique characteristics.

For product inquiries, technical questions, or other information about Plexiglas® V825T-LPL® acrylic resin, please contact our customer service team at: arkema.usph-resin-cs@altuglasint.com or 1-800-523-1532

> Learn more at plexiglas.com

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