FASCIA AND MOUNTING BRACKETS

Automotive applications that fit
IMPROVING SAVINGS THROUGH PERFORMANCE
Apply the benefits of lower density and high dimensional stability

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</thead>
<tbody>
<tr>
<td>Density advantage</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>-</td>
<td>-</td>
<td>++</td>
<td>+</td>
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<tr>
<td>Impact</td>
<td>0</td>
<td>+</td>
<td>+</td>
<td>0</td>
<td>+</td>
<td>-</td>
<td>0</td>
</tr>
<tr>
<td>Weatherability</td>
<td>++</td>
<td>0</td>
<td>-</td>
<td>-</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Dimensional stability</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Heat resistance</td>
<td>0</td>
<td>+</td>
<td>0</td>
<td>++</td>
<td>-</td>
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<td>+</td>
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<tr>
<td>Suitable for snap-fit design</td>
<td>+</td>
<td>++</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cost advantage</td>
<td>+</td>
<td>-</td>
<td>+</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
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<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>Units</th>
<th>Luran S 777K (ASA)</th>
<th>Luran SC 2861 (ASA/PC)</th>
<th>Novodur H801 (ABS/PC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile modulus</td>
<td>ISO 527</td>
<td>MPa</td>
<td>2300</td>
<td>2300</td>
<td>2400</td>
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<tr>
<td>Charpy, notched</td>
<td>ISO 179</td>
<td>kJ/m²</td>
<td>17</td>
<td>60</td>
<td>30</td>
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<tr>
<td>Density</td>
<td>ISO 1183</td>
<td>g/cm³</td>
<td>1,07</td>
<td>1,15</td>
<td>1,07</td>
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</tbody>
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**APPLICATIONS**

Automotive engineers around the world rely on INEOS Styrolution for innovative styrenic materials for demanding mounting bracket applications:
- Fascia brackets
- Bumpers
- Fog lamps & surrounds
- Side panels
- Claddings

**PROPERTIES**

High-performance resins such as Luran S (ASA), Luran SC (ASA/PC) and Novodur (ABS) enable clever and cost-effective solutions for mounting bracket designers and manufacturers, due to their exceptional balance of properties:
- Excellent dimensional stability
- Low density
- High strength
- High stiffness
- High heat resistance & aging
- Superb impact resistance
- Rugged durability
- UV protection (Luran S)
- Versatile processability

**ADVANTAGES**

Styrenic resins efficiently optimize the performance of current mounting bracket application designs, as well as expanding future design possibilities with their high-flow versatility. Taken together, the advantages are clear:
- **Lower costs** – due to lower density, lower weight and thinner bumpers > Lower density than POM
- **Better fit** – for instance, no gap between car and bumper > Even with snap-fit designs
- **More robust insertion/extraction performance**
- **Greater dimensional stability** – for example, for thin wall bumpers & brackets > Stiffer than TPO
- **Better finish**
- **Easier to process** – due to low warpage, isotropic shrink, and excellent melt flow for complex designs > Lower warpage than glass fiber filled PP

Additional automotive application solutions from INEOS Styrolution:

**INTERIOR APPLICATIONS**
- Instrument panel components
- Center consoles
- Roof consoles
- Interior trim

**EXTERIOR APPLICATIONS**
- Front grills
- Rearview mirrors
- Rear lights
- Exterior trim and body panels