Nomex® Honeycomb

Lightest Possible Construction

Parts which require minimum weight often employ Nomex® Honeycomb sandwich cores. Our #1562 and #2562 are .210” cut thickness with 3/16” over expanded cells. #1562 is 1.8 lb/cu ft. density and #2562 is 3.0 lb/cu ft. Over expanded cell structures allow both to be quite flexible, making them perfect for use in tight radius curves. All of our resins will bond well to the phenolic coated honeycomb, reducing peel.

Nomex® is a registered trademark of E.I. DuPont De Nemours & Co.

Description

This aerospace grade aramid fiber honeycomb exhibits outstanding flammability properties. It is manufactured from DuPont Nomex® paper (or equivalent) and coated with a heat resistant phenolic resin.

Features

- Fire resistant (self-extinguishing)
- High strength to weight ratio
- Corrosion resistant
- Excellent dielectric properties
- Thermally insulating
- High toughness
- Excellent creep and fatigue performance
- Good thermal stability
- Over expanded cell configuration suitable for forming simple curves
- Compatible with most adhesives used in sandwich composites

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Density</th>
<th>COMPRESSION (BARE)</th>
<th>PLATE SHEAR &quot;L&quot; DIRECTION</th>
<th>PLATE SHEAR &quot;W&quot; DIRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>STRENGTH (psi/MPa)</td>
<td>MODULUS (ksi/Gpa)</td>
<td>STRENGTH (psi/MPa)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TYP</td>
<td>MIN</td>
<td>TYP</td>
</tr>
<tr>
<td>1562</td>
<td>1.8</td>
<td>90</td>
<td>0.62</td>
<td>74</td>
</tr>
<tr>
<td>2562</td>
<td>3.0</td>
<td>300</td>
<td>2.07</td>
<td>200</td>
</tr>
</tbody>
</table>