PCGA-XR2 3003 Aluminum Honeycomb

Description:
PCGA-XR2 3003 commercial grade aluminum honeycomb is a lightweight core material offering excellent strength and good corrosion resistance for industrial applications at low cost. PCGA-XR2 3003 honeycomb is made from 3003 aluminum alloy foil.

Applications:
PCGA-XR2 3003 honeycomb uses include air/light directionalization, energy absorption, tooling, ceiling and floor panels, counter tops and other applications for which elevated physical and mechanical properties are not required.

Features:
- High thermal conductivity
- Flame resistant
- Good moisture and corrosion resistance
- Fungi resistant
- Low weight / High strength

Availability:
PCGA-XR2 3003 honeycomb is available in four forms: unexpanded blocks, unexpanded slices, untrimmed expanded sheets and cut to size expanded sheets. It is also available with or without cell perforations to facilitate cell venting for certain applications.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Sizes</td>
<td>1/4&quot; - 1.0&quot;</td>
</tr>
<tr>
<td>Densities</td>
<td>1.2 pcf - 5.2 pcf</td>
</tr>
<tr>
<td>Sheet “Ribbon” (L)</td>
<td>48&quot; typical - 72&quot; max</td>
</tr>
<tr>
<td>Sheet “Transverse” (W)</td>
<td>96&quot; typical - 200&quot; max</td>
</tr>
<tr>
<td>Sheet Thickness (T)</td>
<td>35&quot; max</td>
</tr>
<tr>
<td>Tolerances</td>
<td>Length: + 6&quot;, - 0&quot;</td>
</tr>
<tr>
<td></td>
<td>Width: + 6&quot;, - 0&quot;</td>
</tr>
<tr>
<td></td>
<td>Thickness: ± 0.08&quot; (under 4&quot; thick)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Density: ± 15%</td>
</tr>
<tr>
<td></td>
<td>Cell Size: ± 15%</td>
</tr>
</tbody>
</table>

NOTE: Special dimensions, sizes, tolerances, CNC machining and die cut to size can be provided upon request.

Corrosion Resistance:
The XR2 corrosion coating offers a chrome-free clear protective film, providing good corrosion resistance.
PCGA-XR2 3003 commercial grade aluminum honeycomb is specified as follows:

- **Trade Name** - Corrosion Coating
- **Density** - Nominal density in pounds per cubic foot
- **Cell Size** - Cell size in inches
- **Foil Gauge** - Nominal foil gauge in ten-thousands inch
- **Perforation** - Cell walls perforated (P); not perforated (N)
- **Alloy** - Alloy of the foil

Example: **PCGA - XR2 - 1.8 - 3/4 - 30 - P - 3003**

<table>
<thead>
<tr>
<th>CELL SIZE inch</th>
<th>NOMINAL FOIL GAUGE inch</th>
<th>NOMINAL DENSITY PCF</th>
<th>STRENGTH PSI</th>
<th>MODULUS KSI</th>
<th>STRENGTH PSI</th>
<th>MODULUS KSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>.003</td>
<td>5.2</td>
<td>620</td>
<td>148</td>
<td>345</td>
<td>215</td>
</tr>
<tr>
<td>3/8</td>
<td>.003</td>
<td>3.6</td>
<td>325</td>
<td>92</td>
<td>210</td>
<td>130</td>
</tr>
<tr>
<td>1/2</td>
<td>.003</td>
<td>2.5</td>
<td>165</td>
<td>40</td>
<td>130</td>
<td>70</td>
</tr>
<tr>
<td>3/4</td>
<td>.003</td>
<td>1.8</td>
<td>110</td>
<td>24</td>
<td>95</td>
<td>55</td>
</tr>
<tr>
<td>1.0</td>
<td>.003</td>
<td>1.2</td>
<td>75</td>
<td>16</td>
<td>55</td>
<td>40</td>
</tr>
</tbody>
</table>

Note: Lighter foil gage versions available upon request: 1/4 - 3.4, 3/8 - 2.3, 1/2 - 1.8, 3/4 - 1.2, 1.0 - 1.0

Mechanical property values were derived from testing according to AMS STD 401 and are for reference only. Certificates of conformance are not provided unless specifically requested.

*Minimum values may be up to 25% lower than typical values.

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