PRODUCT DATA SHEET

DESCRIPTION
ANC commercial grade Nomex® honeycomb core is manufactured from Nomex® paper sheets and is coated and bonded together with a phenolic resin.

Designed to offer industrial users and designers high strength-to-weight properties at relatively low cost, Nomex® honeycomb is particularly suitable as a core material for production of nonmetallic sandwich structures using high performance fiber reinforced composites as the facing material.

FEATURES
- High strength-to-weight ratio
- Excellent fire-resistant, self-extinguishing, and low fumes toxicity
- High temperature capabilities
- Easily formed to shape
- Low cost
- Corrosion resistance against water, oil, and fuel
- Good thermal and electrical insulator
- Cut to customer specification

TYPICAL APPLICATIONS
- Racing car bodywork
- Ground antennas and radomes
- Marine applications—ranging from interior panels, flooring, hatches
- Leisure applications—skis and surfboards
- Precision optical equipment
- Filter systems

PRODUCT DESIGNATION

<table>
<thead>
<tr>
<th>n.g.</th>
<th>ANC (a)</th>
<th>4.8 (b)</th>
<th>48 (c)</th>
<th>(OX) (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>ANC</td>
<td>Nomex® commercial honeycomb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>3.2</td>
<td>Cell size in millimeters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>29</td>
<td>Density (kg/m³)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td>(OX)</td>
<td>Overexpanded</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STANDARD DIMENSIONS AND TOLERANCES

- Nominal sheet length (W) = 2500 ± 75 mm
- Nominal sheet width (L) = 1250 ± 75 mm
- Sheet thickness as requested from 1.5 mm to 100 mm ± 0.125 mm
- Sheet thickness above 100 mm, tolerance = ± 0.25
- Density as nominal ± 10%

Other sheet sizes may be available upon request.

For our range of aerospace grade Nomex® honeycomb (ANA), please refer to our Nomex® Honeycomb—Aerospace Grade product data sheet.
**Nomex® Honeycomb**

**Commercial Grade**

**PRODUCT DATA SHEET**

**MECHANICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Stabilized Compression</th>
<th>Plate Shear</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Strength (MPa)</td>
<td>Modulus (MPa)</td>
</tr>
<tr>
<td>ANC-3.2–48</td>
<td>2.17</td>
<td>127</td>
</tr>
<tr>
<td>ANC-4.8–32</td>
<td>1.20</td>
<td>75</td>
</tr>
<tr>
<td>ANC-4.8–48</td>
<td>2.40</td>
<td>140</td>
</tr>
<tr>
<td>ANC-4.8–48(OX)</td>
<td>2.90</td>
<td>120</td>
</tr>
</tbody>
</table>

**HEXAGONAL CELL**

**OVEREXPANDED CELL**

T = Thickness or cell depth  
L = Ribbon direction  
W = Direction perpendicular to the ribbon direction

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