A Designer Solution For
Acoustic Enclosure

Alubond
U.S.A
Acoustic Panels

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Acoustic Enclosure
**Alubond U.S.A Acoustic**

Alubond U.S.A is the brand name for the new technology aluminum composite building panel from American building technologies, Illinois, USA. The product is also manufactured under license from ABTI in Belgrade by Alubond Europe and in U.A.E by Mulk Holdings FZC. The panel is a composite consisting of two layers of aluminum skin sandwiching an Acoustic core in a continuous co-extrusion process. This new generation technology of mechanical and chemical bonding gives Alubond U.S.A Acoustic panels an exceptional bond integrity.

The outer aluminum skin for exterior grade Alubond U.S.A Acoustic panels is coated with PVDF Kynar 500 fluorocarbon, Polyester, U.D.P Coatings. The lower aluminum skin is chromate treated for anti-corrosion.

**APPLICATIONS**

Alubond’s array of colors and finishes combined with the inherent capability of forming in to different shapes and contours with durability and weather resistance makes Alubond preferred brand for acoustic and thermal application. Major corporations and multinational companies have a definitive desire to make their structure an expansion of personal designer statement. Alubond becomes a natural choice to achieve this objective. Some of the commonly used Alubond applications are:

- **Genset Enclosure**
- **Air Compressor Enclosure**
- **Portacabins**
- **Machine & Turbine Covers**
- **Panel Boards**
- **Chiller Cover & HVAC Ducts**
- **Acoustic & Thermal Doors**
- **Refrigeration Enclosure**

**PRODUCT ADVANTAGES**

- **LIGHT WEIGHT**: extreme rigidity and flatness resulting in an economical option for high quality enclosure.
- **WEATHER RESISTANCE**: combined with high acoustics, thermal and fire rated values.
- **CHOICE OF SOLID**: Metallic, Granite, Veneer and Chameleon colors makes Alubond Preferred choice for adding aesthetic look as per customer requirement.
- **EASY MACHINE ABILITY**: gives the flexibility of shapes making it a versatile panel to achieve complex designer solutions.

**ACOUSTIC CORE**

Alubond U.S.A Acoustic core was developed to achieve optimum acoustical and thermal resistance properties and these properties relate to the physical composition of the LDPE produced at Alubond. The sound energy that is absorbed is either reflected, dissipated or transmitted. The sound absorbing coefficient of a material describes its sound absorbing properties. Alubond uses specially processed porous polymers which are prepared by copolymerizing styrene and de vinyl benzene and contain micro-scaled pores that help in sound dampening.

**TECHNICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Result</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (PSI)</td>
<td>ASTM D 638-03</td>
<td>26000</td>
<td></td>
</tr>
<tr>
<td>Elongation %</td>
<td>ASTM D 638-03</td>
<td>4%</td>
<td></td>
</tr>
<tr>
<td>Minimum T Bend Radii</td>
<td>ASTM D 638-03</td>
<td>1 T</td>
<td></td>
</tr>
<tr>
<td>Yield Strength (PSI)</td>
<td>ASTM D 638-03</td>
<td>24000</td>
<td></td>
</tr>
<tr>
<td>UV Resistance Change in 3000h</td>
<td>ASTM GC 154-06</td>
<td>&lt;0.5%</td>
<td>Reflectance</td>
</tr>
<tr>
<td>Natural Salt spray loss after 3000h</td>
<td>ISO 9227</td>
<td>&lt;1.5%</td>
<td>Reflectance</td>
</tr>
<tr>
<td>Coefficient of thermal expansion</td>
<td>ASTM D 5851</td>
<td>16.96%</td>
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</tr>
<tr>
<td>Deflection Temperature Under Load</td>
<td>ASTM D 648</td>
<td>211°C</td>
<td>(411.8°F)</td>
</tr>
<tr>
<td>Exterior &amp; Coating Warranty</td>
<td>5 to 15 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Transmission Loss (3mm)</td>
<td>ASTM E 413</td>
<td>25 dB</td>
<td></td>
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<tr>
<td>Thermal Conductance</td>
<td>ASTM C 518</td>
<td>5.79 Btu/hr.ft/°F (32.9 W/m/°K)</td>
<td></td>
</tr>
</tbody>
</table>

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