OVERVIEW

PACOPADS™ are a line of press pads specifically engineered to improve the process of laminating rigid multi-layer and flexible Printed Circuit Boards. They serve two primary functions: to accurately control heat input and to equalize the pressure applied to the panel surface.

PACOPADS™ are a unique, cellulosic-based product, engineered specifically to meet the performance requirements of both Rigid Multilayer and Flexible Printed Circuit Board manufacturers. PACOPADS™ are manufactured on a highly specialized paper machine, using virgin fibers that guarantee a low density profile consistent across the entire area of the sheet. (See Press Probe Illustration)

PACOPADS™ are vastly superior to commodity grade papers which vary significantly in weight, thickness, hard spots, contaminants, and moisture.

FEATURES

- Proven worldwide performance since 1986
- Operating temperature of 475°F/246°C for six hours
- Two standard thicknesses of .035” (.89mm) and .055” (1.4mm) for custom Heat Input Control and optimal Pressure Equalization
- Extremely low moisture to reduce liquid buildup in vacuum systems minimizing heat rise variability due to volatility
- Uniform fiber formation and distribution for unmatched pressure equalization, micro Z-axis conformance and repeatable, consistent Heat Rise
- Low fiber dusting and contamination
- No resinous binders or fillers, essentially sulfur free, with no odor or solvents to pollute vacuum systems or the work environment
- Environmentally friendly – suitable for re-pulping, land fill disposal or incineration

LAMINATION PROCESS ADVANTAGES

- Control of Heat Rise - PACOPADS™ perform this function with totally predictable and reproducible results due to their uniform fiber distribution, low moisture content and tightly controlled thickness and weight specifications
- Equalization of Pressure throughout the Pressure Load - Use of PACOPADS™ eliminates air voids, inner-layer slippage and white corners or edges. PACOPADS™ also reduce dielectric thickness variations, image and glass cloth transfer, and obviate the potential of low-pressure prepreg blisters
- 3-Dimensional Conformance - PACOPADS™ eliminate X-Y-Z axis stress which cause cover-layer voids and circuit distortion. At the same time, PACOPADS™ improve cavity fill, and adhesive flow control in the manufacture of Flex, Rigid-flex, and Heat Sink Circuit Boards

RECOMMENDED LAMINATION LAY-UP

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e-mail: sales@pacothane.com  web: www.pacothane.com
PRESSURE EQUALIZATION
PRESS PADS FOR LAMINATION
OF FLEXIBLE AND MULTILAYER
CIRCUIT BOARDS

PRODUCT INFORMATION BULLETIN

PRESS PADS FOR LAMINATION
OF FLEXIBLE AND MULTILAYER
CIRCUIT BOARDS

DISTRIBUTED WORLDWIDE.

DESCRIPTION OF STANDARDS

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Test Method</th>
<th>Reported Units</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Application Temp.</td>
<td>Q 1025</td>
<td>°F (°C)</td>
<td>475°(246)°</td>
</tr>
<tr>
<td>Guage</td>
<td>T-411</td>
<td>in</td>
<td>0.0550 ± 10%</td>
</tr>
<tr>
<td>Density</td>
<td>T-410 &amp; T-411</td>
<td>Lb/in</td>
<td>4.5</td>
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<tr>
<td>Tensile (MD)</td>
<td>T-494</td>
<td>Lb/in</td>
<td>≤ 10</td>
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<tr>
<td>Brightness</td>
<td>T-452</td>
<td>%</td>
<td>85.0</td>
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<tr>
<td>Compression</td>
<td>ASTM F806-88</td>
<td>%</td>
<td>0.94</td>
</tr>
</tbody>
</table>

AVAILABILITY

PACOPADS™ are available in custom-made sheet sizes, tooled to customer specifications. The complete line of Pacothane Technologies products is available from leading local Distributors Worldwide who offer “Just in Time” delivery from locally-available stocks.

Also from Pacothane® Technologies:

RELEASE PRODUCTS
PACOTHANE PACO•VIA PACOLON PACO-CLUTCH
PRESS PADS
PACOPADS PACOTHERM PRESSPROBE
CONFORMABLES
PACOFLEX ULTRA PACOFLEX 1000 PACOTHANE PLUS
CONTAMINATION CONTROL
PACOGARD
ULTRA HIGH TEMPERATURE

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