CorrLam™ VpCI® Barrier Laminate, Patent Pending

DESCRIPTION
This unique structure consists of an outer layer of high strength cross-laminated HDPE film, with a foil middle layer, which are both laminated to VpCI-126 polyethylene film. This multilayered high performance laminated structure was developed to meet the toughest industrial requirements, provides an excellent barrier to water vapor, gas, ultraviolet light and odor. The barrier layer (foil) prevents the VpCI molecular vapor from escaping from the package thereby trapping the protective chemistry within.

CorrLam VpCI Barrier Laminate prevents corrosion on metal parts, extends product shelf life and provides long-term preservation.

APPLICATION
• CorrLam is designed for the exceptional protection of moisture-sensitive and oxygen-sensitive metal parts
• Ideal for vacuum packaging
• Utilized for fabrication of large format equipment covers and small parts pouches
• For ocean shipment the use of VpCI-132 foam pads in combination with CorrLam VpCI Barrier Laminate is recommended

FEATURES
• Protects ferrous and nonferrous metals
• Utilizes Vapor phase Corrosion Inhibitor (VpCI) technology
• Eliminates the need for desiccants while providing complete corrosion protection
• Flexible, heat-sealable (vacuum sealable)
• High barrier block to water vapors, oxygen and carbon dioxide
• Excellent mechanical properties
• Water Vapor Transmission Rate (WVTR) and O$_2$ Transmission Rate (OTR) are less than 0.001g/100 in$^2$ (0.001g/6.45m$^2$) per day
• High degree of puncture and tear resistance
• Excellent choice of material for export packaging, highly sensitive domestic packaging and/or long-term preservation.
• Material may also be fitted with a one-way vacuum valve, for removal of harmful moisture vapor and other gases from the interior of an enclosure or package
• Conforms to performance specification MIL PRF-131J
PACKAGING AND STORAGE
Available in custom sizes such as pouches, covers, blankets etc. Contact Cortec Corporation for more information. Store in a cool, dry place until ready for use. The shelf life for CorrLam VpCI Barrier Laminate material and converted products is one year.

TESTING DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis Weight, Lb/ream (kg/ream)</td>
<td>ASTM D646</td>
<td>138.8 (62.95)</td>
</tr>
<tr>
<td>Yield, in²/lb (m²/kg)</td>
<td>Calculated</td>
<td>3100 (4.4)</td>
</tr>
<tr>
<td>Caliper, mils (mm)</td>
<td>ASTM D2103</td>
<td>8.7 (221)</td>
</tr>
<tr>
<td>Tensile strength, psi (kPa)</td>
<td>ASTM D882</td>
<td>MD 3900 (26871)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TD 3100 (21359)</td>
</tr>
<tr>
<td>Puncture resistance, lb(g)</td>
<td>FED STD 101</td>
<td>19.5 (0.0430)</td>
</tr>
<tr>
<td>Elmdendorf tear, g</td>
<td>ASTM D 1922</td>
<td>MD 750</td>
</tr>
<tr>
<td></td>
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<td>TD 1100</td>
</tr>
<tr>
<td>Heatsel Strength, lb/in (kg/cm), width (375°F [191°C], 40 psi, 2.0 sec. Dwell)</td>
<td>ASTM F88</td>
<td>15-20 (2.6-3.5)</td>
</tr>
<tr>
<td>Water Vapor Transmission rate, g/100 in², 24 hours (100°F [38°C], 90% RH)</td>
<td>ASTM 1249</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Oxygen Transmission rate, cc/100 in², 24 hours (73°F [23°C], 0% RH)</td>
<td>ASTM D3985</td>
<td>&lt;0.001</td>
</tr>
</tbody>
</table>

Note: These values are typical for this structure and should not be construed as performance specifications.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

LIMITED WARRANTY
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