



HIGH PERFORMANCE VpCI® PACKAGING

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 O₂ Transmission Rate (OTR) are less than 0.001g/100 in² (0.001g/6.45m²) 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



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

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 VpCl Barrier Laminate material and converted products is one year.

TESTING DATA

Property	Test Method	Value
Basis Weight, Lb/ream (kg/ream)	ASTM D646	138.8 (62.95)
Yield, in ² /lb (m ² /kg)	Calculated	3100 (4.4)
Caliper, mils (mm)	ASTM D2103	8.7 (221)
Tensile strength, psi (kPa)	ASTM D882	MD 3900 (26871)
		TD 3100 (21359)
Puncture resistance, lb(g)	FED STD 101	19.5 (0.0430)
Elmendorf tear, g	ASTM D 1922	MD 750
		TD 1100
Heatseal Strength, lb/in (kg/cm), width (375°F [191°C], 40 psi, 2.0 sec. Dwell)	ASTM F88	15-20 (2.6-3.5)
Water Vapor Transmission rate, g/100 in ² , 24 hours (100°F [38° C], 90% RH)	ASTM 1249	<0.001
Oxygen Transmission rate, cc/100 in ² , 24 hours (73° F [23° C), 0% RH)	ASTM D3985	<0.001

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

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