



# CALPAC ULTRAFOIL 500M

CALPAC ULTRAFOIL 500M is a heavy duty, foil-based, moisture barrier laminate designed for a wide variety of applications. It is designed to minimize contamination from sources including outgassing and non-volatile residues in addition to being waterproof, greaseproof, flexible and heat sealable. With excellent puncture and tear resistance, it is well suited for packaging items large or small that require protection from the elements.

This moisture barrier film is on the QPL for MIL-PRF-131K and is converted in accordance with MIL-DTL-117H.

## FEATURES:

- Superior chemical resistance.
- Excellent puncture and tear resistance.
- Linear low density Polyethylene inner layer for easy sealability.
- Low MVTR. Protects against damage caused by humidity, moisture, oxygen, odors, and other airborne contaminants.
- Lightweight and puncture resistant. Easily conforms to the shape of products during vacuum packaging.
- Suitable for vacuum packaging applications requiring nitrogen flushing.
- Available in Class 100 clean.
- Date and lot coded for traceability.
- Thermal transfer identification print is standard.
- Available in zipper, side and bottom gusset configurations.
- Lead-free RoHS 2, REACH and Conflict Minerals compliant



### Physical Properties

Thickness - Average

### Test Method

ASTM D374

### US Std.

5.4 mil.

Yield

5094in<sup>2</sup>/lbs.

Tensile Strength

ASTM D882

MD - Average

5366 psi

TD - Average

7251 psi

Graves Tear

ASTM D1004

MD - Average

3 lbs.

TD - Average

3.5 lbs.

Spencer Impact - Average

ASTM D3420

13 lbs.

Puncture Resistance - Average

FTMS 101C Method 2065

18.0 lbs.

Moisture Vapor Transmission Rate

ASTM F1249 (37.8°C, 90% RH)

0.0005 g/100in<sup>2</sup>/day

Oxygen Gas Transmission Rate

ASTM F1249 (23.0°C, 0% RH)

0.0005 g/100in<sup>2</sup>/day

Heat Seal Range

ASTM F88

275°F-500°F

Seal Strength - Minimum

ASTM F88

14 lbs.

(200°C, 1s, 4 bar)

Caltex Plastics makes no warranty, expressed or implied, as to the suitability of these materials for any specific use. The values shown above were developed from random samples taken from production material. We believe them to be typical for the product. Actual values may vary somewhat from those depicted here. Customers should determine product suitability based upon their own internal criteria.

**CALTEX PLASTICS INC.** Quality Poly Bags and Barrier Pouches  
for Electronics, Military, Foods and Industry

2110 E. 51st Street • Vernon, CA 90058 • (323) 583-4140 • (800) 584-7303 • Fax (323) 583-8402  
E-Mail: [jim@caltexplastics.com](mailto:jim@caltexplastics.com) • Website: [www.caltexplastics.com](http://www.caltexplastics.com)