



CALDRY 600M

CALDRY 600M is the ultimate heavy duty moisture barrier laminate specifically designed to be electrostatic protective, electro-magnetic shielding and static dissipative with multiple layers including aluminum, as it is well suited for packaging large machinery and military ordinance. It is water vapor proof, heat-sealable and provides the greatest puncture and tear resistance of any MIL-PRF-81705E available.

This electrostatic protective moisture barrier film is on the QPL for **MIL-PRF-81705 TY1 CL.1** and is converted in accordance with **MIL-DTL-117H**.

FEATURES

- Ultimate 32 lbs of puncture resistance.
- Proprietary sealant layer for easy sealability
- Ultra-low MVTR. Protects against damage caused by humidity, moisture, oxygen, odors and other airborne contaminants
- Heavy duty but yet suitable for vacuum packing.
- Available in Class 100 Clean. Printed material identification is trapped below a layer of plastic.
- Date and Lot coded for traceability
- Material friendly non-damaging thermal transfer print is standard
- Available in rollstock, tubing and bags with or without zipper
- Lead-free RoHS 2, REACH and conflict minerals compliant.

<u>Physical Properties</u>	<u>Test Method</u>	<u>US Std</u>
Thickness - Average	ASTM D374	6.4mil
Yield		29.4ft ² /lb. 4150in ² /lb.
Tensile Strength MD - Average TD - Average	AMSTM D882	MD - 7251 psi TD - 7251 psi
Puncture Resistance - Average	MIL-STD-3010 Method 2065	32 lbs
Moisture Vapor Transmission Rate	ASTM F1249 (37.8°C, 90% RH)	0.0003 g/100in ² /day
Oxygen Transmission Rate	ASTM D3985 (23.0°C, 0% RH)	0.0005 cc/100in ² /day
Heat Seal Range	ASTM F88	275°F-500°F
Seal Strength - Minimum (200°C, 1s, 4 bar)	ASTM F88	20lb/in
<u>Electrical Properties</u>	<u>Test Method</u>	<u>US Std</u>
Surface Resistance	ANSI/ESD STM11.11	≥1 x 10 ⁴ Ω and <1 x 10 ¹¹ Ω
Electrostatic Decay	MIL-STD-3010 Method 4046	< 2.0 seconds
Electrostatic Shielding	ANSI/ESD STM11.31	<10 nanojoules
EMI Attenuation	MIL-PRF-81705	> 35db

Shelf Life: The shelf life of this is one year under normal warehouse conditions. Extreme hot or cold temperatures and humidity can cause a reduction in the shelf life.

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.