



# CALDRY 100™

CALDRY 100 is the most cost-effective product for the protection of moisture and ESD sensitive components. CALDRY 100 replaces costly nylon/foil laminates with a 3.6 mil multi-layer composition while providing full protection from moisture, static fields, and tribocharging. Our bags are printed with a thermal transfer process which does not damage the electrical or physical integrity of the bag.

Standard References: ANSI/ESD S20.20, ANSI/ESD S11.4 Level 3, ANSI/ESD S541, EIA 583, and JESD625-A.

## FEATURES:

- Low MVTR. Protects against damage caused by humidity, moisture, oxygen, odors, and other airborne contaminants.
- Light weight and puncture resistant. Easily conforms to the shape of products during vacuum packaging.
- Ideal for packaging of disk caddies and SMD chip reels, tubes, and trays.
- Static dissipative inner and outer surfaces.
- Available in Class 100 clean.
- Suitable for vacuum packaging applications requiring nitrogen flushing.
- Date and lot coded for traceability.
- Contains no amines or amides and is N-octanoic acid free.
- Thermal transfer identification print is standard.
- Available in zipper, side and bottom gusset configurations.
- Lead-free RoHS 2, REACH and Conflict Minerals compliant.



# CALTEX PLASTICS INC.

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)





# CALDRY 100™

## SPECIFICATIONS - Typical Values

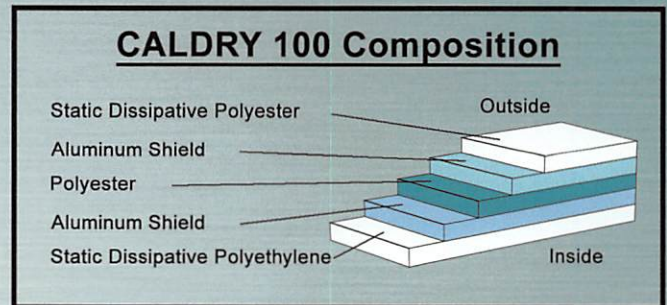
### ELECTRICAL PROPERTIES

EMI SHIELDING (MIL-PRF-81705 Rev.E)	> 40 db Between 1 & 10 GHz
RESISTIVITY-CONDUCTIVE METAL LAYER (ASTM D-257):	< 2 Ohms/sq. in. avg
SURFACE RESISTANCE (BOTH SURFACES) (ASTI/ESD STM 11.11)	< 1x10 <sup>9</sup> to 1x10 <sup>11</sup> Ohms
STATIC DECAY (FTMS 101C, METHOD 4046.1 5000 TO 0 VOLTS):	< 0.05 seconds
CAPACITIVE PROBE TEST (HIGH VOLTAGE DISCHARGE)-(EIA-std 541/APPENDIX E-1 KV):	< 25 Volts
CHARGE GENERATION-NOMINAL (MODIFIED INCLINE PLANE AVE.nC/sq.in.):	
TEFLON:	- 0.09
QUARTZ:	+ 0.10
<b><u>PHYSICAL PROPERTIES</u></b>	
YIELD:	7100 sq.in./lb.
TOTAL THICKNESS:	3.6 mils (92 microns)
LIGHT TRANSMISSION (ASTM D-1003-77):	< 0.01%
TENSILE STRENGTH (ASTM D882-83 METHOD A)	MD: 9,825 psi TD: 10,500 psi
TEAR STRENGTH (ASTM D1004-66 - NOTCHED)	MD: 4.7 lbs. TD: 4.3 lbs.
BURST STRENGTH (FTMS 191-C METHOD 5122)	84 psi
PUNCTURE STRENGTH (FTMS 101-C METHOD 2065.1)	> 22 lbs.
ELONGATION (ASTM D822-83 METHOD A)	MD: 98% TD: 80%
HEAT SEAL STRENGTH (ASTM D-1876-72 IMPULSE SEALER):	> 12 lbs./in width
SEAM STRENGTH BEFORE & AFTER AGING:	160 F = NO SEPARATION 100 F = NO SEPARATION ROOM TEMPERATURE = NO SEPARATION
MVTR (ASTM F-1249 @ 100°F 100 sq. in./24hrs):	< 0.02 gms, 0.01 gms NOMINAL
WATER RESISTANCE (FTMS 101-C, METHOD 3028, PROCEDURE F):	NO DELAMINATION
DELAMINATION (FTMS 101-C, METHOD 3015):	NO LEAKAGE, SWELLING, EMBRITTLEMENT
RESISTANCE TO AGING:	NO DELAMINATION

### CONTACT CORROSIVITY

Low Carbon Steel, Aluminum, Copper, Ag plated copper foil, Sn-Pb coated copper foil, No Evidence of Corrosion or Etching of Metal

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 • Website: www.caltexplastics.com