



CALDRY 1500™

CALDRY 1500 is the ultimate dry packaging bag on the market. It is specifically designed for the vacuum packaging of moisture and ESD sensitive components. The multiple layer construction of CALDRY 1500 provides full protection against ESD, EMI/RFI and tribocharging. This 7 mil thick composite material features an incredible 35-pound puncture resistance which makes it the best choice for the vacuum packaging of trays, reels and tubes with sharp edges. Its moisture barrier performance exceeds foil laminates for low MVTR, particularly after flexing. 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, and EIA 583.



FEATURES:

- Very low MVTR. Protects against damage caused by humidity, moisture, oxygen, odors, and other airborne contaminants.
- Ultimate puncture resistance. Endures the most extreme vacuum packaging applications.
- Extremely tough structure is well suited for transportation purposes and long-term dry-packed storage of sensitive devices.
- Ideal for packaging of disk caddies and SMD chip reels, tubes, and quad flat packs.
- 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.
- Lead-free RoHS 2, REACH and Conflict Minerals compliant.

CALTEX PLASTICS INC.



CALDRY 1500™

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) (ANSI/ESD STM 11.11):	< 1×10^5 to 1×10^{11} 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

PHYSICAL PROPERTIES

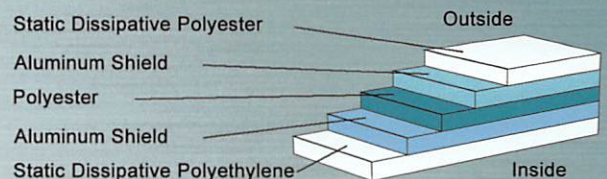
TOTAL THICKNESS:	7.0 mils
LIGHT TRANSMISSION (ASTM D-1003-77):	< 0.01%
TENSILE STRENGTH (ASTM D882)	MD: 8,770 psi. TD: 9,570 psi
TEAR STRENGTH (D1004-66 - NOTCHED)	MD: 5.8 lbs. TD: 7.5 lbs.
BURST STRENGTH (FTMS 101-C METHOD 2007 1a)	> 130 psi
PUNCTURE STRENGTH (FTMS 101-C METHOD 2065.1)	> 35.0 lbs.
ELONGATION (ASTM D822-83 METHOD A)	MD: 40% TD: 74%
HEAT SEAL STRENGTH (ASTM D-1876-72 VERTROD SEALER):	> 16.0 lbs./in width
MVTR (ASTM F-1249 @ 100°F 100 sq. in./24hrs):	< 0.005 gms
OTR (@ 100% OXYGEN 100 SQ.IN./24 HRS.) ASTM D-3985 77°F @ 90% RH:	< 0.0005 cc

CONTACT CORROSITIVITY

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.

CALDRY 1500 Composition



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

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