

CALDRY 360M

6/11/2020

CALDRY 360M is a durable, flexible, electro static protective, electrostatic and electromagnetic shielding, static dissipative heat sealable laminate. Constructed with an aluminum foil layer, makes it an excellent moisture barrier with superior puncture and tear resistance. Perfect for small bags and large crating applications.

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

- Superior puncture and tear resistance
- Proprietary sealant 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.
- 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	5.3mil
Yield		35.9ft ² /lb. 5076in ² /lb.
Tensile Strength MD - Average TD - Average	AMSTM D882	MD - 6100 psi TD - 4400 psi
Puncture Resistance - Average	MIL-STD-3010 Method 2065	19 lbs
Moisture Vapor Transmission Rate	ASTM F1249 (37.8°C, 90% RH)	0.0003 g/100in ² /day
Heat Seal Range	ASTM F88	275°F-500°F
Seal Strength - Minimum (200°C, 1s, 4 bar)	ASTM F88	16lb
<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.

MacPac, Inc., 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.