

# EcoSonic® ESD Self-Seal Bubble Bags powered by Nano VpCI®

## **DESCRIPTION**

EcoSonic® ESD Self-Seal Bubble Bags powered by Nano VpCl® combine Vapor phase Corrosion Inhibitors with self-seal cushioning packaging bubble bags and ESD protection to safeguard sensitive electronic equipment from corrosion, physical damage, and triboelectric charge generation. They are also available in a non-ESD version.

EcoSonic® ESD Self-Seal Bubble Bags work by saturating the enclosed airspace with Vapor phase Corrosion Inhibitors that form a protective molecular layer on all packaged metals without leaving behind a noticeable film or residue. The bubbles serve as cushioning, dunnage, and void fill material. EcoSonic® ESD Self-Seal Bubble Bags are #4 recyclable.\*

## **PACKAGING & STORAGE**

Available in 6 x 8 in (15.2 x 20.3 cm) and 10 x 12 in (25.4 x 30.5 cm) bag sizes.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 1 year



### **FEATURES**

- Easy to use
- Dual function: cushioning and corrosion protection
- No interference with subsequent processing (i.e., painting, welding, cleaning, soldering)
- No adverse effects on plastic (lexane), optics, elastomers, and other non-metallics
- Passes NACE TM0208-2018 standard for corrosion protection
- Passes German TL-8135-002 standard for corrosion protection

## **BENEFITS**

- Cushions sensitive items
- Protects metals from corrosion
- Protects against triboelectric charge generation (ESD version only)

## **METALS PROTECTED**

- Carbon Steel
- Aluminum
- Copper
- Silver
- Brass
- Stainless Steel

#### **APPLICATION**

Place item in bag. Peel off white strip and fold the top of the bag over to seal.

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#### **TECHNICAL PROPERTIES**

ESD properties apply to the inside of the bag:

Surface Resistance: <1x10<sup>11</sup>

Static Decay Rate: <2 seconds</li>

| Property                    |         | Test<br>Method                 | Units               | EcoSonic® ESD<br>Bubble Film | Cor-Pak® VpCI® Self-<br>Seal Bubble Bags |
|-----------------------------|---------|--------------------------------|---------------------|------------------------------|--|
| Caliper                     |         | ASTM D6988                     | mil<br>(µm)         | 5.00                         | 5.00                                     |
| Breaking Factor             | MD      | ASTM D882-02                   | lbs/in<br>(N/m)     | 19.02 (3330.91)              | 14.57 (2551.60)                          |
|                             | CD      |                                |                     | 17.03 (2982.41)              | 15.99 (2800.28)                          |
| Tensile Strength at Break   | MD      | ASTM D882-02                   | psi<br>(kPa)        | 3804.00 (26,227.66)          | 2913.00 (20,084.43)                      |
|                             | CD      |                                |                     | 3406.00 (23,483.54)          | 3197.00 (22,042.54)                      |
| Elongation at Break         | MD      | ASTM D882-02                   | %                   | 859.52                       | 557.89                                   |
|                             | CD      |                                |                     | 921.48                       | 888.91                                   |
| Yield Strength              | MD      | ASTM D882-02                   | psi<br>(kPa)        | 1737.44 (11,979.23)          | 2129.98 (14,685.70)                      |
|                             | CD      |                                |                     | 1602.83 (11,051.12)          | 1547.79 (10,671.64)                      |
| Tear Strength               | MD      | ASTM<br>D1922-06a              | gram force<br>(lbf) | 1651.20 (3.64)               | 1587.20 (3.50)                           |
|                             | CD      |                                |                     | 2393.60 (5.28)               | 1894.00 (4.18)                           |
| Dart Drop Impact Resistance |         | ASTM D1709-04<br>Test Method A | grams<br>(lbs)      | 562.20 (1.24)                | 513.70 (1.13)                            |
| Puncture Resistance         | Outside | MIL-STD-3010,<br>TM 2065       | lbf (gf)            | 6.80 (2893.92)               | 7.21 (3270.40)                           |
|                             | Inside  |                                |                     | 7.49 (3397.41)               | 8.12 (3683.17)                           |
| Seal Strength               |         | ASTM F88-99                    | lbs/in<br>(N/m)     | 8.65 (1514.85)               | 9.45 (1654.95)                           |

#### Typical values represent average laboratory values and are intended as guides only, not as specifications

## LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

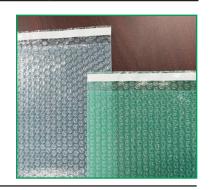
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4119 White Bear Parkway, St. Paul, MN 55110 USA Phone (651) 429-1100, Fax (651) 429-1122 Toll Free (800) 4-CORTEC productinfo@cortecvci.com https://www.cortecvci.com https://www.cortecpackaging.com

# Distributed by



Valdamark Limited
Unit 13,
30 The Downs
Altrincham, Cheshire, WP14 2PX,
United Kingdom.
valdamark@live.com
Tel: +44 (0) 161 706 0388









