



**RoHS and REACH Compliance Statement**

None of the RoHS restricted materials or REACH substances of very high concern are intentionally added in manufacturing this product. Ref: Directive 2002/95/EC Article 4.1. and Regulation (EC) No. 1907/2006. See Desco Industries Inc. Limited Warranty at [Desco.com](http://Desco.com).

Per ANSI/ESD S541 section 7.2.2 Resistance of Dissipative Materials "A static dissipative material shall have a surface resistance of greater than or equal to  $1.0 \times 10^4$  ohms but less than  $1.0 \times 10^{11}$  ohms. Packaging materials that are in intimate contact with devices should be dissipative."

"It should be understood that any object, item, material or person could be a source of static electricity in the work environment. Removal of unnecessary nonconductors, replacing nonconductive materials with dissipative or conductive materials and grounding all conductors are the principle methods of controlling static electricity in the workplace, regardless of the activity." [ESD Handbook ESD TR20.20-2008 section 2.4 Sources of Static Electricity]

**Description:**

Desco's standard weight (3 mil) sheet protector is made from a static dissipative coextruded polyolefin material. The triboelectric charge generation of the material is negligible (tested per EIA-541) to make them safe for use around ESD susceptible items. They are designed for top loading a standard 8.5" x 11" sheet of paper and have a standard 3-hole punch for use with a binder.

**Electrical Properties:**

Static Decay: < 1.0 sec. per FTMS 101C, Method 4046  
 Surface Resistance:  $1 \times 10^4 < 1 \times 10^{11}$  ohms per ANSI/ESD STM11.11

**Specifications:**

Polycarbonate Compatibility: 3,400 PSI @ 73°F  
 Corrosivity: Negligible per FTMS 101C-3005  
 Tensile Strength: 2000-3000 PSI per ASTM D-882  
 Elongation @ Break: 500-800% per ASTM D882  
 Ball Burst Impact Strength: 20-30 cm/kg per ASTM D-3420  
 Tear Propagation: 200 grams per ASTM D-1938  
 Modulus of Elasticity: 10,000-15,000 PSI per ASTM D-882A  
 Coefficient of Friction: 0.3 Kinetic, Film to Film per ASTM D-1894  
 N-Octanoic Acid Free  
 Has No Measurable Outgassing

Sheet Protectors are hot stamped with:

"Descoindustries.com  
 #07450/16252 ESD Protective"



*Inside Dimension Tolerances are -0/+1/4" unless specified*  
 Specifications and procedures subject to change without notice.

**STATFREE® SHEET PROTECTOR, STATIC DISSIPATIVE, 3 MIL**

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