



In-use photo - circuit boards not included

Item No.	Description & Container ID (L x W X D)
<a href="#">8521</a>	Single Card Carrier, 9" x 12" x 1.25" (229mm x 305mm x 32mm)
<a href="#">8522</a>	Single Card Carrier, 17" x 18" x 2" (432mm x 457mm x 51mm)
<a href="#">8523</a>	Single Card Carrier, 10" x 8" x 2" (254mm x 203mm x 51mm)

"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 section 2.4 Sources of Static Electricity]

## Features

- Static Shielding Single Card Carrier with Dissipative Cushioning Foam. Ideal for static-safe storage and in-process handling and transporting. Protects individual printed circuit boards from static and physical damage during storage and transport
- Made from Velostat® injection molded, conductive polypropylene
- Convuluted static dissipative (<math>1 \times 10^{11}</math> ohms) pink polyurethane foam adhered to lid, foam pad loose in bottom
- Includes a 10mm Female Snap Socket (for use with ground cord [not included] with a 10mm male stud snap to attach to ground)
- Carriers are noncorrosive and lightweight
- Meets ANSI/ESD S20.20 and Packaging Standard ANSI/ESD S4.1
- Made in the United States of America

## Specifications

### Property - Plastic

Property - Plastic	Test Method	Value
Hardness	ASTM D2240	67-71 Shore D
Maximum Temp. Exposure		180°F
Tensile Strength	ASTM D638	2800 - 3000 psi
Flex Modulus	ASTM D790	130,00 - 150,000 psi
Electrical Conductance		
Volume Conductive	ASTM D991	<math>< 500</math> ohms/cm
Volume Resistance	ANSI/ESD STM11.12	<math>< 1 \times 10^4</math> ohms

### Properties - Foam

Properties - Foam	Test Method	Value
Density	ASTM D3574-08	1.4 lb
Compression Set @ 50%	ASTM D3574-08	10%
Tensile Strength	ASTM D3574-08	12.0 psi
Surface Resistivity	ASTM D257	<math>< 1 \times 10^{11}</math> ohms square
Static Decay	FTMS 101C	2.0 seconds

Chemical Resistance	Reactions
Alcohol	Resistant
Aromatic Hydrocarbons	Severe Attack
Aliphatic Hydrocarbons	Moderate Attack
Concentrated Acids	Slight Attack
Concentrated Alkalines	Slight Attack
Kerosene	Severe Attack
Ketones (Acetone)	Moderate Attack
Mineral Oil	Slight Attack
Oil & Gasoline	Moderate Attack

Specifications and procedures subject to change without notice



Made in the United States of America

## Velostat® Single Card Carriers

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**DRAWING NUMBER**  
8521

**DATE:**  
October  
2018

Unless otherwise noted, tolerance is  $\pm 10\%$

**PROTEKTIVE PAK**