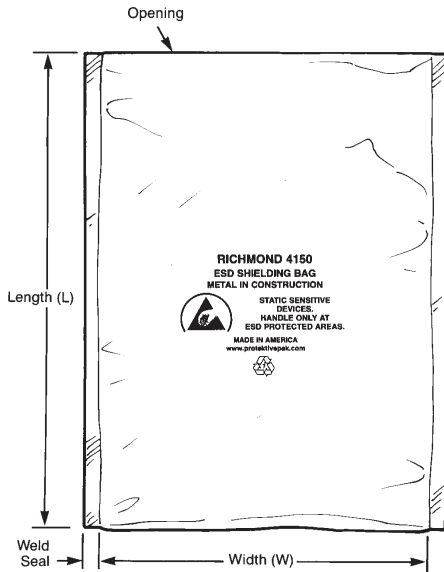


RICHMOND 4150 SERIES



Side Weld Seals 3/8 in.

Item No.	Size (in.) W x L	Item No.	Size (in.) W x L
48000	3 x 5	48009	10 x 14
48001	4 x 6	48010	11 x 15
48002	5 x 8	48011	12 x 16
48003	6 x 8	48012	12 x 18
48004	6 x 10	48013	14 x 18
48005	6 x 14	48014	15 x 18
48006	8 x 10	48015	18 x 18
48007	8 x 12	48016	18 x 24
48008	10 x 12		

Packaged 100 per package

Specifications:

Electrical Properties

Surface Resistance:

Outer Surface	<10 ¹¹ ohms
Aluminum Layer	<10 ² ohms
Inner Surface	<10 ¹¹ ohms
Static Shielding - Energy Penetration	<15 nJ (nanojoules)
Charge Generation	Teflon: 0.09 nC/sq. in. Quartz: 0.01 nC/sq. in.
Capacitance Probe (to dissipate 1 KV)	<30V

Typical Values

Test Procedures/Method

ESD S11.11
EOS/ESD S11.11
ESD S11.11
EOS/ESD S11.31
Modified Incline Plane
Modified Incline Plane
MIL-PRF-81705D, EIA 541

Physical Properties

Bag Thickness:

Polyester Layer	0.5 Mils Static Dissipative PET film	ASTM D-2103
Aluminum Layer	10-25 Angstroms	
Polyethylene Layer	2.5 Mils Static Dissipative PE film	ASTM D-2103
Total Thickness	3.1 Mils	ASTM D-2103
Light Transmission (%)	>40% (Tobias)	ASTM D-1003
Burst Strength (psi)	>50	FTMS 101K, Method 2065.1
Heat Seal (lbs/in)	>10	375°F, 1/2 sec 60 psi
Seam Strength	Pass	MIL-PRF-81705D
Tear Strength (lbs)	>25	ASTM D-1004
Tear Resistance	100 grams/mil	ASTM D-1422
Puncture Resistance (lbs)	>12	ASTM D-2065
MVTR (gms / 100 in ² / 24 hrs, 100°F)	0.35	FTMS 101C/2065
Abrasion Resistance	>100 cycles	Sutherland Abr. (.0000 Steel Wool)
Outgassing	Pass	ASTM E595
Non-corrosive	Pass	MIL-STD-3010, M3005

Chemical Properties

Corrosion

No effect on aluminum, copper, silver, Sn-Pb coated foil, stainless steel, low carbon steel

Polycarbonate Capability,
No Amines or N-Octanoic Acid

Yes
Not present

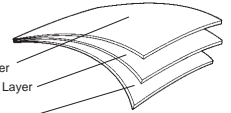


Mixed Unsortable Plastic Scrap

Mixed unsortable plastic scrap shall contain assorted plastics of multiple grades that are co-extruded, bonded or laminated together which are unsortable into individual grades.

Protektive Pak's bags are recyclable

Static Dissipative
Outer Polyester Layer
Aluminum Shielding Layer
High Performance
Static Dissipative Inner
Polyethylene Layer



A fundamental ESD control principle (see ANSI/ESD S20.20 Foreword):

ESD susceptible items should be transported and stored outside an Electrostatic protected Area enclosed in low charging, static shielding protective packaging.

The bag's material meets the performance specification requirements of Mil-PRF-81705D, Type III. Bag is free of amines, N-octanoic acid, and heavy metals.



RICHMOND 4150, TRANSPARENT MULTIPLE USE STATIC SHIELDING BAG (METAL IN)

PROTEKTIVE PAK

PROTEKTIVE PAK
13520 MONTE VISTA AVENUE, CHINO, CA 91710
PHONE (909) 627-2578, FAX (909) 363-7331
ProtektivePak.com

DRAWING NUMBER
48000

DATE:
1/06