522-880

FLEXIBLE PACKAGING

Sensitive devices require protection from electrostatic fields and electrostatic discharges whenever they are outside an ESD Protected Area. Such protection is achieved by enveloping the device in a material with a conductive layer. It is generally felt that to provide an adequate shield the conductive layer must have a surface resistance of 1×10^5 ohm or less. Often, an ESD packaging material will also provide mechanical protection or protection against contamination by dust or humidity.

EN 100015-1 defines three levels of packaging: Intimate, Proximity and Secondary.

The following definitions are also included in the draft:

Antistatic: Packaging which minimizes charge generation by separation or rubbing with other materials.

Electrostatic discharge shielding: A barrier or enclosure that limits the passage of current and attenuates the energy resulting from an electrostatic discharge of 1000V to ≤ 50 nanojoules.

Electrostatic conductive: Packaging with a surface resistance $\geq 1 \times 10^3$ ohm and $< 1 \times 10^6$ ohm.

Electrostatic dissipative: Packaging with a surface resistance $\geq 1 \times 10^6$ ohm and $< 1 \times 10^{12}$ ohm.

Insulative: Packaging with a surface resistance $\geq 1 \times 10^{12}$ ohm.

The draft of the revision of EN 100 015 includes the following table of requirements:

	INSIDE EPA		OUTSIDE EPA	
	Intimate	**Proximity**	**Intimate**	**Proximity**
ESDS	Either astatic and electrostatic conductive or astatic and electrostatic dissipative (for powered ESDS only astatic and electrostatic dissipative above 10^9 shall be used)	Astatic and electrostatic shielding or Astatic and electrostatic conductive or dissipative	As for inside EPA	Electrostatic shielding
Non ESDS	Dissipative or astatic		No requirements	

NOTE: Where surface resistance $> 10^{10}$ ohms is used, the material shall be procured with a T_{1000} <2sec

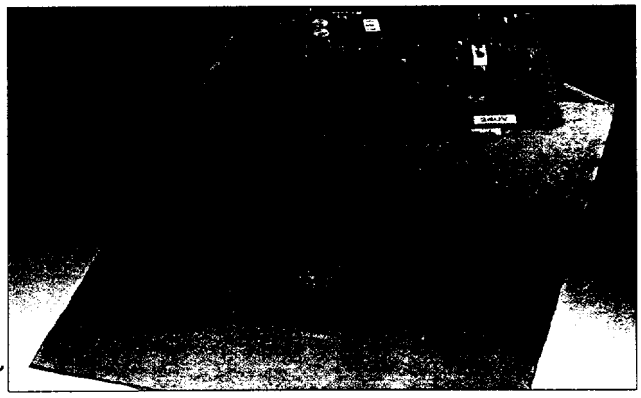
INDEX TO FLEXIBLE PACKAGING SECTION

Note to film thickness:
1 micron=10^{-6}m=0.001mm
100 gauge=0.025mm therefore 300 gauge=0.075mm or 75micron
100 gauge 1 thou=1 mil (USA)

Note to bag dimension variations: Thickness variations may reach ±6% e.g. a 75micron film will vary between 70 and 80micron though in a large sample the average thickness will be between 73 and 77micron. Bag width and length variations + 20mm - 0mm to the normal metric dimension are tolerated. Tubing length variations may reach ± 3%.

Note to bag sizes: First dimension is bag width, second is bag length.

ANTISTATIC PINK TUBING AND BAGS



BQ3KL

- Suitable for use in EPA to hold non-ESD sensitive items
- Made of polyethylene, 0.075mm thick
- Amine free, humidity dependent additive
- Tough, puncture resistant
- Rs < 10^{11}, T_{1000} < 2 sec at 50% rH
- Bags are printed in black with ESD logo and text to EN 100 015, in bundles of 100
- Available as tubing unprinted on rolls up to 500m long and 825mm wide

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