3M™ Antistatic Utility Tape 40 Printed and Unprinted

Data Sheet **July 2013**

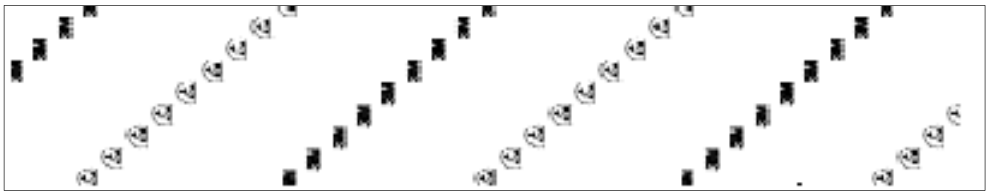
Product Description

3M™ Antistatic Utility Tapes 40 Printed and Unprinted represent a breakthrough in pressure-sensitive adhesive (PSA) tape technology. This new tape, which generates less than 50 Volts on unwind and removal from stainless steel, helps prevent electrostatic discharge (ESD) damage to sensitive electronic components in manufacturing environments. Triboelectric charge may vary with your application and environment.

Product Features

- **Excellent Performance**
  3M 40 antistatic utility tape can be used at static-safeguard workstations as part of your total static control program. It generates very low levels of static charge even in dry conditions of 10% relative humidity (RH). The tape is supplied on a paper core; antistatic plastic cores are available to minimize particulate contamination in clean work areas.

- **Proprietary Technology**
  3M 40 antistatic utility tape is a transparent polyester film tape with acrylic adhesive. Made with a proprietary technology, the tape generates extremely low levels of triboelectric charge when it is unwound from the roll and also when removed from most surfaces on which it is placed. This makes the tape an excellent choice for use near electronic components and assemblies. The tape is supplied on 36-yard and 72-yard rolls on 1” and 3” cores.



- **40 Tape Printed for Protection**
  The tape is printed on the adhesive side with the 3M logo and the ESD Protective Symbol. This reminds workers that 40 tape is one of the only utility tapes you should allow in static-safeguarded areas.

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Applications

- Office/Clean Room/Work Station
  - Holding notes of work orders
  - Holding obstruction down
  - Third hand, general purpose
- Manufacturing
  - Close static shielding bags
  - Conformal coating/maskins
  - Holding and sealing supplies
- Packaging
  - Box, bag and container sealing/holding DIP Tubes
- Removing Contaminants
- Label Stock

Typical Properties

Property Unit of Measure	Test Method	Typical Value
ELECTRICAL PROPERTIES **Static charge generation:**		
Removal from roll, 10% RH, volts	3M	20
Removal from roll, 50% RH, volts	3M	5
Removal from stainless steel, 10% RH, volts	3M	50
Removal from stainless steel, 50% RH, volts	3M	5
Surface resistance:		
Adhesive @ 50% RH, Ω	ESD Assoc. STD 11.11	5×10^6
Adhesive @ 10% RH, Ω	ESD Assoc. STD 11.11	5×10^6
TAPE PROPERTIES		
Adhesion to steel, oz/inch	ASTM D 1000	15
Unwind force from roll, oz/inch	ASTM D 1000	24
Thickness, mils	ASTM D 1000	2.2
Break strength, lb./inch	ASTM D 1000	20
Slit width, inch	ASTM D 1000	± 1/64
Non - outgassing		
TML	ASTM E 595	<1.0%
CVCM	ASTM E 595	<0.1%

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Shelf-Life	This product has a 2-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C / 50°F to 27°C / 80 °F and <75% relative humidity).
Availability	Please contact your local distributor; available from 3M.com/oem [Where to Buy] or call 1.800.676.8381.

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3M

Electrical Markets Division
6801 River Place Blvd.
Austin, TX 78726-9000
800.245.3573
FAX: 800.245.0329
www.3M.com/electrical

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