



# 40 Printed and Unprinted Antistatic Utility Tape

## Data Sheet

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

### Patented Technology

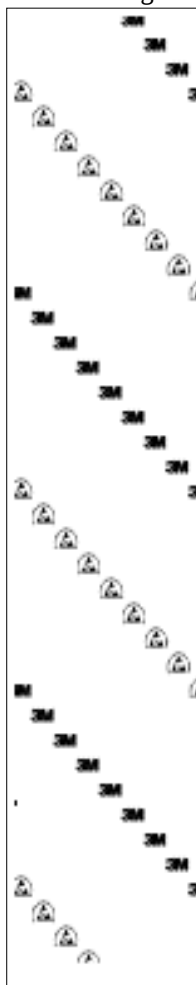
3M antistatic utility tape is a transparent polyester film tape with acrylic adhesive. Made with a proprietary technology, the tape generates extremely low levels of triboelectric charge when it is unwound from the roll and also when removed from most surfaces on which it is placed. This makes the tape 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.

### Superior Performance

3M 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% RH. The tape is supplied on a paper core; antistatic plastic cores are available to minimize particulate contamination in clean work areas.

### 40 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 the only utility tape you allow in static-safeguarded areas.



### 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

Call 1-800-328-1368 for more information or the name of your nearest 3M ELPD Division authorized distributor.

### Typical Properties

| Property/Unit of Measure                    | Test Method          | Typical Value   |
|---------------------------------------------|----------------------|-----------------|
| <b>ELECTRICAL PROPERTIES</b>                |                      |                 |
| <b>Static charge generation:</b>            |                      |                 |
| 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               |
| <b>Surface resistance:</b>                  |                      |                 |
| Adhesive @ 50% RH, $\Omega$                 | ESD Assoc. STD 11.11 | $5 \times 10^6$ |
| Adhesive @ 10% RH, $\Omega$                 | ESD Assoc. STD 11.11 | $5 \times 10^6$ |
| <b>TAPE PROPERTIES</b>                      |                      |                 |
| 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          | $\pm 1/64$      |
| <b>Non - outgassing</b>                     |                      |                 |
| TML                                         | ASTM E 595           | <1.0%           |
| CVCM                                        | ASTM E 595           | <0.1%           |

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