

3M™ Antistatic Utility Tape

3M Antistatic Utility Tape 40 combines 3M's remarkable antistatic adhesive with a clear, one mil polyester film backing, and is perfect for use in static-sensitive areas. An optional special pattern of ESD symbols alerts users that this is the only tape that should be used in static-safe areas.

At the heart of all 3M antistatic tapes is a unique conductive polymer adhesive that suppresses static, both during unwind from the roll and during removal from a surface. They generate less than 50 volts on unwind from the roll or removal from a stainless steel surface, even in extremely dry conditions of 10% relative humidity.

Use Antistatic Utility Tape 40 as a third hand to hold work orders, notes, documentation, or instructions in place; to seal static shielding bags and boxes containing electronic components; or to bundle DIP tubes and JEDEC shipping trays. It can also be used to hold down obstructions such as wires or attachments during manufacturing.



3M™ Antistatic Utility Tape 40PR

Product No.	Description	
40/40PR*	3 in. Antistatic Plastic Cores Antistatic Utility Tape.*	
	Widths, in. (mm)	Length, yd. (m)
	0.25 (6.3)	72 (66)
	0.375 (9.5)	72 (66)
	0.50 (12.7)	72 (66)
	0.625 (15.8)	72 (66)
	0.75 (19.0)	72 (66)
	0.875 (22.2)	72 (66)
	1 (25.3)	72 (66)
	1 in. Antistatic Plastic Cores	
	Widths, in. (mm)	Length, yd. (m)
	.50 (12.6)	36 (33)
	.75 (19.0)	36 (33)

Specify at time of order. Custom widths available upon request.

*PR designation means printed.

RoHS
Compliant
2002/95/EC

Antistatic Utility Tape 40 and 40PR Properties

Property	Test Method	Typical Value
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	20
Removal from Stainless Steel, 50% RH, volts	3M	5
Surface Resistance		
Adhesive @ 50% RH	ESD S11.11	5 x 10 ⁶ Ω
Adhesive @ 10% RH	ESD S11.11	5 x 10 ⁶ Ω
Tape Properties		
Adhesion to Steel	ASTM D1000	19 oz/in.
Unwind Force from Roll	ASTM D1000	24 oz/in.
Thickness	ASTM D1000	2.2 mils
Break Strength	ASTM D1000	20 lb/in.
Slit Width	ASTM D1000	± 1/64 in.
Rolling Ball Tack	ASTM D1000	70 mm
Outgassing		
TML	ASTM E595	<1.0%
CVCM	ASTM E595	<0.1%
Shelf Life	2 years [when stored in original packaging at 50°F (10°C) to 80°F (27°C) at 50% RH maximum.]	



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

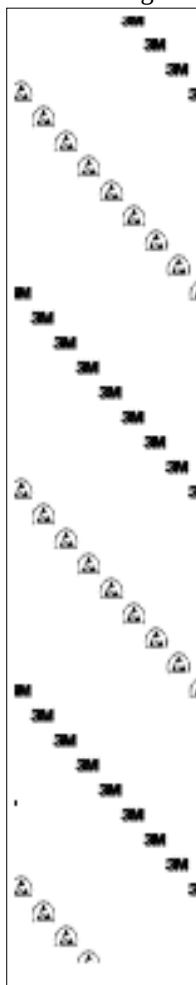
3M antistatic utility tape is a transparent polyester film tape with acrylic adhesive. Made with a proprietary technology, the tape generates extremely low levels of triboelectric charge when it is unwound from the roll and also when removed from most surfaces on which it is placed. This makes the tape 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
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	$\pm 1/64$
Non - outgassing		
TML	ASTM E 595	<1.0%
CVCM	ASTM E 595	<0.1%

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