



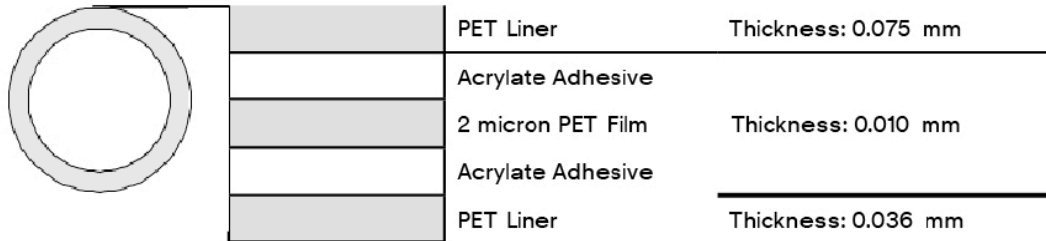
# Ultra-Clean Double Coated PET Tape UCT-10

Technical Data

November, 2013

**Product Description**

3M™ Ultra-Clean Double Coated PET Tape UCT-10 is double coated for dimensional stability and improved handling with ease of die cutting and laminating. The both sides are high adhesion adhesive which make the tape suitable for converting and assembly operation and provides good adhesion to a variety of surfaces.



**Construction**

Adhesive 1 Thickness	Carrier Type Thickness	Adhesive 2 Thickness	Liner 1 Type Liner Thickness Color	Liner 2 Type Liner Thickness Color
0.004 mm	PET 0.002 mm	0.004 mm	PET Liner 0.036 mm Clear	PET Liner 0.075 mm Clear

**Typical Physical Properties**

**Adhesion Peel:** ASTM D-3330 modified  
12 inch/min peeling speed and 2 mil PET Film Backer

	20 minute dwell	72 hour dwell
	180° peel (N/mm)	180° peel (N/mm)
SS	0.44	0.50
PC	0.46	0.51
ABS	0.36	0.43
PP	0.10	0.10

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### Typical Physical Properties (cont.)



### Static Shear Strength

Temperature	Size	Weight	Minutes
72°F (23°C)	1" x 1"	1000 grams	10000
158°F (70°C)	1" x 1"	1000 grams	5000

\* Test terminated at 10,000 minutes

\* Test method: ASTM D3654

### Environmental Performance

**Humidity Resistance:** High humidity has a minimal effect on adhesive performance. Bond strength (is generally higher/shows no significant reduction) after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

**UV Resistance:** When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.

**Temperature Cycling Resistance:** High bond strength (is maintained/increases) after cycling four times through:

- 4 hours at 158°F (70°C)
- 4 hours at -20°F (-29°C)
- 4 hours at 73°F (22°C)

**Chemical Resistance:** When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

**Bond Build-up:** The bond strength of 3M™ UCT-10 increases as a function of time and temperature

**Temperature/Heat Resistance:** 3M™ UCT-10 is usable for short periods (minutes, hours) at temperatures up to 350°F (177°C) and for intermittent longer periods (days, weeks) up to 185°F (75°C).

**Lower Temperature Service Limit:** 50°F (10°C).

### Application Ideas

- Plastic film lamination/bonding
- Process bonding
- Foam bonding
- Graphite sheet bonding

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<b>Available Sizes</b>	Master Width: 1000mm Contact 3M for information on other size availability.
<b>Storage</b>	Store under normal conditions of 70°F (21°C) and 50% relative humidity in the original carton.
<b>Shelf Life</b>	To obtain best performance, use this product within 12 months from date of manufacture.
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ISO 9001

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards



### Industrial Adhesives and Tapes Division Converter Markets

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