



Technical Data Sheet

3M™ Ultra-Clear Double Coated PET Tape UCT-30

Product Description

3M™ Ultra-Clear Double Coated PET Tape UCT-30 is a thin double coated PET tape providing good dimensional stability and improved handling with ease of die cutting and laminating. 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. Ultra clear appearance is assured by special coating process and double film liner design.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

| Attribute Name | Test Method | Test Condition | Value |
|----------------------|-------------|----------------|----------------------------------|
| Adhesive Type | | | Acrylic |
| Color | | | Clear |
| Adhesive Thickness | | Faceside | 0.013 mm (0.51 mil) ¹ |
| Adhesive Thickness | | Backside | 0.013 mm (0.51 mil) ² |
| Carrier Thickness | ASTM D3652 | | 0.004 mm (0.16 mil) |
| Total Tape Thickness | ASTM D3652 | | 0.03 mm (1.18 mil) |
| Liner | | | PET |
| Liner Thickness | | | 2.95 mm (0.036 mil) (1.4 in) |

¹ Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

² Backside adhesive is on the exterior of the roll, exposed when liner is removed.

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 22 °C (72 °F)

Test Method: ASTM D3330

| Dwell Time | Substrate | Value |
|------------|--------------------|-----------------------|
| 20 min | ABS | 6 N/cm ¹ |
| 20 min | Polycarbonate (PC) | 6.5 N/cm ¹ |
| 20 min | Polypropylene (PP) | 5 N/cm ¹ |
| 20 min | Stainless Steel | 6.5 N/cm ¹ |
| 72 h | Stainless Steel | 7.1 N/cm ¹ |

¹ 12 in/min (300 mm/min)

Static Shear

| Temperature | Test Condition | Value |
|----------------|----------------|-------------------------|
| 22 °C (72 °F) | 1000g | 10,000 min ¹ |
| 70 °C (158 °F) | 500g | 10,000 min ¹ |

¹ 1 in x 1 in sample area, test terminated after 10,000 minutes

| Attribute Name | Value |
|-----------------------------------|------------------------------|
| Short Term Temperature Resistance | 177 °C (350 °F) ¹ |
| Long Term Temperature Resistance | 80 °C (185 °F) ² |

¹ Short Term (minutes, hour)

² Long Term (day, weeks)

180° Peel Adhesion

Temperature: 22 °C (72 °F)

Dwell Time: 72 h

Test Method: ASTM D3330

| Substrate | Value |
|--------------------|-----------------------|
| Polycarbonate (PC) | 7.3 N/cm ¹ |
| Polypropylene (PP) | 5.5 N/cm ¹ |
| ABS | 7.2 N/cm ¹ |

¹ 12 in/min (300 mm/min)

Handling/Application Information

Application Examples

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

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 12 months from date of manufacture.

Available Sizes

| Attribute Name | Value |
|---------------------|-----------------------|
| Standard Roll Width | 1,200 mm ¹ |

¹ In increments of 10 mm. Other widths available upon request.

Automotive Disclaimer

Select Automotive Applications:

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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