



# Technical Data Sheet

## 3M™ Double Coated Tape GPT-020F



[Product Details](#)

### Product Description

3M™ Double Coated Tape GPT-020F is an 8 mil thick, double sided tape utilizing a modified acrylic adhesive with polyester carrier and a BOPP (Bi-axially Oriented Polypropylene) film liner.

### Product Features

- High adhesion to a variety of high and low surface energy substrates
- High initial tack
- High shear and temperature resistance
- Easy handling and converting due to polyester carrier
- Bi-axially Oriented Polypropylene (BOPP) Liner for clean handling and automatic unwinding
- General Purpose Tape (GPT)
- High thermal and humidity resistance

### Typical Physical Properties

Attribute Name	Test Method	Test Condition	Value
Color			Clear
Adhesive Type			Modified Acrylic
Adhesive Carrier			PET
Adhesive Thickness		Faceside	0.095 mm (3.75 mil) <sup>1</sup>
Carrier Thickness			0.012 mm (0.47 mil)
Adhesive Thickness		Backside	0.095 mm (3.75 mil) <sup>2</sup>
Total Tape Thickness	ASTM D3652		0.202 mm (7.95 mil)
Liner			Bi-axially Oriented Polypropylene film, White with Red 3M Logo
Liner Print			3M
Liner Thickness			0.1 mm (3.9 mil)

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

<sup>2</sup> 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)

Dwell Time: 72 h

Test Method: ASTM D3330

Substrate	Value
ABS	10.86 N/cm (99 oz/in) <sup>1</sup>
Glass	11.79 N/cm (108 oz/in) <sup>1</sup>
Polycarbonate (PC)	12.32 N/cm (113 oz/in) <sup>1</sup>
Polypropylene (PP)	12.26 N/cm (112 oz/in) <sup>1</sup>
Stainless Steel	11.3 N/cm (103 oz/in) <sup>1</sup>

<sup>1</sup> 12 in/min (300 mm/min)

Attribute Name	Test Method	Temperature	Test Condition	Value
Static Shear	ASTM D3654	22 °C (72 °F)	1000g	>10,000 min <sup>1</sup>
Static Shear	ASTM D3654	70 °C (158 °F)		>10,000 min <sup>2</sup>
Shear Adhesion Failure Test - SAFT				500g >190 °C, 1000G>160 °C (500g >375 °F, 1000G>320 °F) <sup>3</sup>

<sup>1</sup> 1 in x 1 in sample area, test terminated after 10,000 minutes

<sup>2</sup> 1/2 in x 1 in sample area, test terminated at 10,000 minutes

<sup>3</sup> SAFT Shear Adhesion Failure Test with birch plywood, 1 inch overlap, 100 grams used, temperature start at 90°F and ramped 10°F every 10 min. until complete failure.

Attribute Name	Value
Short Term Temperature Resistance	160 °C (320 °F) <sup>1</sup>
Long Term Temperature Resistance	90 °C (195 °F) <sup>2</sup>

<sup>1</sup> Short Term (minutes, hour)

<sup>2</sup> Long Term (day, weeks)

## **Typical Environmental Performance**

Attribute Name	Value
UV Resistance	Excellent

## **Handling/Application Information**

### **Application Examples**

- Point of purchase displays (POP)
- Indoor/Outdoor signage and banners
- Bonding and mounting of sales displays and billboards.
- Paper bonding and packaging
- Splicing
- Mounting of plastic parts
- Mounting of furniture and decorative trims
- Fixing of decorative trims and emblems.

## **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 18 months from date of manufacture.

## **Certificate of Analysis (COA)**

Available upon request.

## **Precautionary Information**

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577

## **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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