



# Technical Data Sheet

## 3M™ Double Coated Tape GPT-020F


### 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

Property	Values	Additional Information
Adhesive Type	Modified Acrylic	
Adhesive Carrier	PET	
Liner	Bi-axially Oriented Polypropylene film, White with Red 3M Logo	
Liner Thickness	0.1 mm	
Color	Clear	
Carrier Thickness	0.012 mm	
Total Tape Thickness (mil)	7.95 mil	View 

Test Method: ASTM D3652

Total Tape Thickness (mm)	0.202 mm	View 
Test Method: ASTM D3652		
Adhesive Thickness	0.095 mm	View 
Test Name: Backside		
Notes: Backside adhesive is on the exterior of the roll, exposed when liner is removed.		
Adhesive Thickness	3.75 mil	View 
Test Name: Backside		
Notes: Backside adhesive is on the exterior of the roll, exposed when liner is removed.		
Adhesive Thickness	0.095 mm	View 
Test Name: Faceside		
Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.		
Adhesive Thickness	3.75 mil	View 
Test Name: Faceside		
Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.		
Carrier Thickness	0.47 mil	
Liner Print	3M	
Liner Thickness	3.9 mil	
Shear Adhesion Failure Test - SAFT	500g >190 °C, 1000G>160 °C	
Shear Adhesion Failure Test - SAFT	500g >375 °F, 1000G>330 °F	

### Typical Performance Characteristics

Property	Values	Additional Information
Short Term Temperature Resistance	330 °F	
Short Term Temperature Resistance	160 °C	

Long Term Temperature Resistance 80 °C

Long Term Temperature Resistance 176 °F

Static Shear >10,000 min [View](#) 

Test Method: ASTM D3654


Notes: 1 in<sup>2</sup> sample size

Static Shear >10,000 min [View](#) 

Test Method: ASTM D3654

Notes: 0.5 in<sup>2</sup> sample size

UV Resistance Excellent

180° Peel Adhesion 12.32 N/cm [View](#) 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Polycarbonate (PC)


Notes: 12 in/min (300 mm/min)

180° Peel Adhesion 113 oz/in [View](#) 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Polycarbonate (PC)

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion 10.86 N/cm [View](#) 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: ABS

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion 99 oz/in [View](#) 

Test Method: ASTM D3330


Dwell/Cure Time: 72.0

Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: ABS

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

12.26 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Polypropylene (PP)

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

112 oz/in

View 


Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Polypropylene (PP)

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

11.79 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Glass

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

108 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Glass

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

11.3 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Stainless Steel

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

103 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0  
Dwell Time Units: hr  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Stainless Steel

Notes: 12 in/min (300 mm/min)

## Storage and Shelf Life

It is suggested that products are stored at room temperature conditions of 70°F (21°C) and 50% relative humidity. If stored properly, product retains its performance and properties for 18 months from date of manufacture. Note: The shelf life may be shortened if the original packaging is not properly sealed or stored in an environment with high temperatures or humidity.

## Certificate of Analysis (COA)

Available upon request.

## Bottom Matter

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## 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.

## References

Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/p/d/b5005163007/">https://www.3m.com/3M/en_US/p/d/b5005163007/</a>

## Family Group

Link Tags:

- GPT-020F

Products	Adhesive Type	Adhesive Carrier	Liner	Liner Thickness	Color	Carrier Thickness	Total Tape Thickness (mm)	Adhesive Thickness	Short Term Temperature Resistance	Long Term Temperature Resistance
GPT-020F	Modified Acrylic	PET	Bi-axially Oriented Polypropylene film, White with Red 3M Logo	0.1 mm	Clear	0.012 mm	0.202 mm	0.095 mm	160 °C	176 °F

## ISO Statement

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

## Precautionary Information

For information please contact your local 3M Office. [www.3M.com](http://www.3M.com)

## Information

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