



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 in² sample size

Static Shear >10,000 min

[View](#) 

Test Method: ASTM D3654

Notes: 0.5 in² 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	https://www.3m.com/3M/en_US/p/d/b5005163007/

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

Information

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