



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	
Color	Clear	
Liner	Bi-axially Oriented Polypropylene film, White with Red 3M Logo	
Liner Thickness	0.1 mm	
Liner Print	3M	
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 
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Test Method: ASTM D3652

Adhesive Thickness	0.095 mm	View 
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Test Name: Backside

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

Adhesive Thickness	3.75 mil	View 
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Test Name: Backside

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

Adhesive Thickness	0.095 mm	View 
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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 
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Test Name: Faceside

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

Carrier Thickness	0.47 mil	
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Liner Thickness	3.9 mil	
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Shear Adhesion Failure Test - SAFT	500g >190 °C, 1000G>160 °C	
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Shear Adhesion Failure Temperature - SAFT	500g >375 °F, 1000G>320 °F	
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Typical Performance Characteristics

Property	Values	Additional Information
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180° Peel Adhesion	12.32 N/cm	View 
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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)

Short Term Temperature Resistance

320 °F

View 

Test Condition: Short Term (minutes, hour)

Short Term Temperature Resistance

160 °C

View 

Test Condition: Short Term (minutes, hour)

Long Term Temp C

90 °C

View 

Test Condition: Long Term (day, weeks)

Long Term Temp F

195 °F

View 

Test Condition: Long Term (day, weeks)

Static Shear


>10,000 min

View 

Test Method: ASTM D3654

Test Condition: 1000 g @ Room Temperature

Notes: 1 in² sample size

Static Shear	>10,000 min	View 
Test Method: ASTM D3654		
Test Condition: 500 g @ 70°C (158°F)		
Notes: 0.5 in ² sample size		
UV Resistance	Excellent	

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.

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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/

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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