



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 ro	ll, exposed when liner is removed.			
Adhesive Thickness	3.75 mil	View ^		
Test Name: Backside				
Notes: Backside adhesive is on the exterior of the ro	II, 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 rol	, 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 >190 °C, 1000G>160 °C			
Shear Adhesion Failure Test - SAFT Shear Adhesion Failure Test - SAFT	500g >190 °C, 1000G>160 °C 500g >375 °F, 1000G>330 °F			
Shear Adhesion Failure Test - SAFT		Additional Information		
Shear Adhesion Failure Test - SAFT Typical Performance Characteristics	500g >375 °F, 1000G>330 °F	Additional Information		
Shear Adhesion Failure Test - SAFT Typical Performance Characteristics Property	500g >375 °F, 1000G>330 °F Values	Additional Information		
Shear Adhesion Failure Test - SAFT Typical Performance Characteristics Property	500g >375 °F, 1000G>330 °F Values	Additional Information		
Shear Adhesion Failure Test - SAFT Typical Performance Characteristics Property Short Term Temperature Resistance	500g >375 °F, 1000G>330 °F Values 330 °F	Additional Information		

Science. Applied to Life.™ Long Term Temperature Resistance 80 °C Long Term Temperature Resistance 176 °F Static Shear View ^ >10,000 min Test Method: ASTM D3654 Notes: 1 in² sample size Static Shear View ^ >10,000 min Test Method: ASTM D3654 Notes: 0.5 in² sample size **UV** Resistance Excellent View ^ 180° Peel Adhesion 12.32 N/cm 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 View ^ 113 oz/in

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

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)

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)			
Notes. 12 III/ IIIII (000 IIIIII/ IIIIII)			
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			



View ^ 180° Peel Adhesion 103 oz/in

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

3M Industrial Adhesives and Tapes Division 3M Center, Building 225-3S-06 St. Paul, MN 55144-1000 800-362-3550

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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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