

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 Temperature - SAFT	500g >375 °F, 1000G>320 °F	

Typical Performance Characteristics

Property	Values	Additional Information
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	⬆
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Test Condition: Long Term (day, weeks)

Long Term Temp F	195 °F	View	⬆
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Test Condition: Long Term (day, weeks)

Static Shear	>10,000 min	View	⬆
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Test Method: ASTM D3654

Test Condition: 1000 g @ Room Temperature

Notes: 1 in² sample size

Static Shear	>10,000 min	View	⬆
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Test Method: ASTM D3654

Test Condition: 500 g @ 70°C (158°F)

Notes: 0.5 in² sample size

UV Resistance	Excellent		
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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	⬆
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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	10.86 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: 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.

Automotive Disclaimer

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Bottom Matter

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3M is a trademark of 3M Company.

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

• GPT-020

Products	Color	Adhesive Thickness	Short Term Temperature Resistance	Long Term Temp C	Long Term Temp F	Liner	Liner Thickness
GPT-020F	Clear	0.095 mm	160 °C	90 °C	195 °F	N/A	N/A
GPT-020	Clear	N/A	N/A	90 °C	N/A	Polycoated Kraft, Red 3M Logo on White Background	0.1 mm

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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