



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

Adhesive Type			
Property	Values	Additional Information	

English Last Revision Date: Dec, 2020

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
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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	320 °F	
Short Term Temperature Resistance	160 °C	



Long Term Temp C	90 °C	
Long Term Temp F	195 °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)		

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.

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Bottom Matter

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Trademarks

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 https://www.3m.com/3M/en_US/p/d/b5005163007/					
3m.com Product Page							
amily Group							
ink Tags:							
GPT-020F	GPT-020						
Products	Adhesive Type	Adhesive Carrier	Liner	Liner Thickness	Total Tape	Long Term Temp	Adhesive
					Thickness (mm)	F	Thickness
			Bi-axially Oriented				
GPT-020F	Modified Acrylic	PET	Polypropylene	0.1 mm	0.202 mm	195 °F	N/A
			film, White with				
			Red 3M Logo				

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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