

Technical Data Sheet

3M™ Scrim Reinforced Adhesive Transfer Tape 97053

Product Description

3M™ Scrim Reinforced Adhesive Transfer Tape 97053 is a micro scrim reinforced 2.5 mil thick acrylic adhesive transfer tape specifically designed for difficult bonding applications. This product has excellent quick stick for permanent bond applications on plastics, metals, nonwovens, felts, foams including polyurethane, polyether, polyester, neoprene, polyethylene and EPDM.



Product Features

- The conformability of an unsupported transfer tape that offers the process ability of a double coated tape
- Bonds to a wide variety of materials
- High peel and tack
- Aggressive adhesive with excellent quick stick
- Low VOC and odor
- No primers needed to promote adhesion

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.


Typical Physical Properties

Property	Values	Additional Information
Adhesive Type	Reinforced scrim w/ acrylic https://media.3m.com/mws/media/20598069/imag-	
Liner	50# Silicone	
Liner Thickness	0.06 mm	
Liner Print	None	
Total Tape Thickness (mil)	2.5 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.06 mm	View 

Test Method: ASTM D3652

Liner Thickness	2.5 mil
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Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion	8.7 N/cm	View 

Test Method: ASTM D3330

Dwell/Cure Time: 15.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	80 oz/in	View 
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Test Method: ASTM D3330

Dwell/Cure Time: 15.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil


Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	10.3 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: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	95 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: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	12 N/cm	View 
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Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

110 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

8.5 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
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

78 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
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

11.4 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)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

104 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)
Backing: 2 mil Aluminum Foil


Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	11.4 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)
Backing: 2 mil Aluminum Foil


Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	105 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)
Backing: 2 mil Aluminum Foil


Notes: 12 in/min (300 mm/min)

Short Term Temperature Resistance	200 °F	View 
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Test Condition: Short Term (minutes, hour)

Short Term Temperature Resistance	93 °C	View 
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Test Condition: Short Term (minutes, hour)

Long Term Temp C	79 °C	View 
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Test Condition: Long Term (day, weeks)

Long Term Temp F	175 °F	View 
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Test Condition: Long Term (day, weeks)

Minimum Continuous Temperature	-40 °C	
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Minimum Continuous Temperature	-40 °F	
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Available Sizes

54 and 60

Storage and Shelf Life

Store in original carton at 70°F (21°C) and 50% relative humidity.

If stored under proper conditions, these products retain their performance and properties for one year from date of manufacture.

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Bottom Matter

3M
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Trademarks

3M is a trademark of 3M Company.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40071714/
Safety Data Sheet SDS	http://www.3m.com/3M/en_US/company_US/SDS_page.html?res=97053

Family Group

Link Tags:

- 97053

Products	Liner	Liner Thickness	Long Term Temp F
97053	50# Silicone	0.06 mm	175 °F

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Information

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