



Removable Foam Tape 4658F

Product Data Sheet

Date: April.2009
Supersedes: Sept 2002

Product Description

3M™ Double Coated Removable Foam Tape 4658F is a clear, double coated acrylic foam tape that removes cleanly from many surfaces.

Key Features

3M™ Adhesive 100 is a firm acrylic adhesive system that offers high ultimate bond strength, good temperature resistance, solvent resistance and static shear holding power.

Construction

	4658F
Adhesive Type	100
Thickness (ASTM D-3652) Tape	0.8mm
Release Liner	Clear Polyester Film
Colour	Clear

Typical Physical Properties

Peel Adhesion: To Stainless Steel ASTM D-3330	Room Temperature 90° Angle Peel 12 in./minute Jaw Speed (308 mm/min.) 72 hour dwell	
Stainless Steel	10 mins 24 hours	35.9 44.6
Rigid PVC (Foamex)	10 mins 24 hours	- 12.4
Polycarbonate	10 mins 24 hours	- 11.9
Acrylic	20 mins 24 hours	- 11.3
Polyethylene	20 mins 24 hours	- 2.1
Glass	20 mins 24 hours	40.5 46.1

Typical Physical Properties

Temperature Performance Short Term: Minutes / Hours Long Term : Days / Weeks Minimum	100°C 80°C -30°C
Application Temperature	10°C to 25°C
UV Resistance (10 days exposure QUVA)	Excellent resistance to direct exposure to sunlight or other sources of ultraviolet (U.V.) light.
Samples pre-bonded to Glass, UV exposure through glass	Excellent
Humidity Resistance (10 days at 38°C/98% RH)	No drop in peel strength
Plasticiser Resistance	Poor (not recommended)

Surfaces

Low cohesive strength surfaces, such as painted surfaces, blown vinyl and plasterboard may delaminate on removal. The tape should be tested to ensure the product is suitable for the intended use.

Care should be used when bonding to surfaces with very low internal strength such as painted plaster board, fabric or cloth, wallpaper, blown vinyl, etc. since delamination of that surface may occur.

Care should also be taken with wood veneers and highly polished wood as very glossy surfaces may leave an image when the tape is removed.

Not recommended on plasticised PVC

Acceptable surfaces:

- Rigid PVC
- Glass/Mirrors
- Metal
- Acrylic
- Ceramic tiles
- Plastic (NOT including low surface energy plastics)

Low cohesive strength surfaces

- Wood chip wallpaper
 - Blown vinyl
 - Plasterboard
 - Fabric and cloth
 - Emulsion painted wallpaper
 - Painted surfaces
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Application Techniques

1. Bond strength is dependent upon the amount of adhesive to surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.
2. To obtain optimum adhesion, the bonding surfaces must be clean dry and well unified.
Typical surface cleaning solvents are isopropyl alcohol (rubbing alcohol) and water or heptane.
Note: Carefully read and follow manufacturer's precautions and directions for use when using solvents.
3. Ideal tape application temperature range is 10°C to 25°C
4. Ensure clear liner is removed from tape prior to bonding to second substrate.

Removal Techniques

Use the removal tool to prise apart rigid substrates, then peel SLOWLY to remove completely.

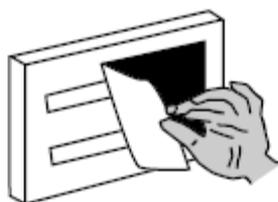
Note: 3M 4658F can reach high bond strengths and some substrates may become difficult to remove. If stretch release is not possible due to the physical properties of the substrates or the type of assembly, the product is not removable and does not allow to separate the substrates.

For flexible surfaces peel back slowly to ensure clean removal. To remove tape from substrate, pull back corner and peel off quickly.

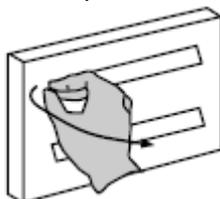
For rigid surfaces, lever or pry apart the substrates to break the bond



For flexible surfaces, peel back slowly to ensure clean removal



To remove tape from substrate, pull back corner and peel off quickly.



Storage

Store at standard room temperature conditions of 21°C and 50% relative humidity.

Shelf Life

12 months from date of dispatch by 3M when stored in the original packaging at 21°C & 50 % relative humidity

For Additional Information

To request additional product information or to arrange for sales assistance, call...0870 6080050
Address correspondence to: 3M United Kingdom PLC, 3M House, 28

Great Jackson Street, Manchester, M15 4PA

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This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations

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<p>3M United Kingdom PLC 3M House, 28 Great Jackson Street, Manchester, M15 4PA</p>	<p>Product Information :</p> <p>Tel 0870 60 800 50 Fax 0870 60 700 99</p>	<p>3M Ireland Limited The Iveagh Building The Park, Carrickmines Dublin 18, Ireland</p>	<p>Customer Service :</p> <p>Tel (01) 280 3555 Fax (01) 280 3509</p>
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