



# 4614F Acrylic Foam Tape

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## Product Data Sheet

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Updated : February 2000  
Supersedes : New

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**Product Description** 4614F is a clear double coated acrylic foam tape with a high tack acrylic adhesive. This tape has a plain white filmic liner.

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**Physical Properties**  
Not for specification purposes

<b>Adhesive Type</b>	Acrylic
<b>Foam Core</b>	Acrylic Density 960kg / m3
<b>Thickness (ASTM D-3652) Tape</b>	0.8 mm ± 0.1mm
<b>Release Liner</b>	White Filmic
<b>Tape Colour</b>	Clear This tape is clear in colour but not optically clear
<b>Shelf Life</b>	24 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity

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**Performance Characteristics**  
Not for specification purposes

<b>Peel Adhesion to Stainless Steel</b> 90° peel @ room temp, 72 hr dwell, jaw speed 300mm/min AFERA 4001 (modified)	24 N/10mm
<b>Static Shear Strength</b> weight held for 100 hours to stainless steel with ½ sq in (3.23 sq cm) overlap	1000g @ 20°C 500g @ 70°C
<b>Temperature Performance</b> Continuous	90 °C
Intermittent	150 °C

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## Application Techniques

1. Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact & thus improves bond strength.
2. To obtain optimum adhesion, the bonding surfaces must be clean dry and well unified. A typical surface cleaning solvent is isopropyl alcohol & water. Use proper safety precautions for handling solvents.
3. Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F).
4. Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended because the adhesive becomes too firm to adhere readily. However once properly applied low temperature holding is generally satisfactory.

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## Applications

4614F is a high performance double coated acrylic foam product which possesses a good balance between shear peel and high tack adhesion. It has been designed to be suitable for a range of bonding applications which require a level of adhesion higher than standard double coated foam tapes but perhaps lower than higher performance 3M VHB™ tapes.

Typical applications include:

Bonding clear materials in applications such as commercial signing and point of purchase.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. 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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