



# 9731 Silicone / Acrylic Double Coated Film Tape

## Product Data Sheet

Updated : October 1996  
Supersedes : May 1996

**Product Description** 9731 tape is a 0.14 mm thick polyester film tape with a polycoated paper release liner on the acrylic adhesive and a polyester film release liner on the silicone adhesive.

**Physical Properties**  
Not for specification purposes

Adhesive Type		3M ref :
Film Lined Side Polycoated Paper Lined Side	Film Silicone Film Acrylic (A25)	
<b>Adhesive Carrier</b>	0.025 mm thick Polyester	
<b>Thickness</b> (ASTM D-3652) Paper Release Liner Film Release Liner Tape Only	0.13 mm 0.10 mm 0.14 mm	
<b>Release Liner</b> Silicone adhesive side  Acrylic adhesive side	Release coated Polyester Film  Silicone Coated Natural Polycoated Paper	
<b>Tape Colour</b>	Translucent	
<b>Shelf Life</b>	12 months from date of receipt by customer when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

**Performance Characteristics**  
Not for specification purposes

<b>Adhesion to Stainless Steel</b>	Silicone adhesive side	3.2 N/10mm
	Acrylic adhesive side	7.6 N/10mm
<b>Relative High Temperature Operating Performance</b> Max : Minutes / Hours Max : Days / Weeks	205 °C 150 °C	
<b>Relative Solvent Resistance</b>	Very Good	
<b>UV Light Resistance</b>	Not recommended for direct exposure to sunlight or other sources of ultraviolet light.	

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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. Some typical surface cleaning solvents are isopropyl alcohol or heptane.

Note : Follow manufacturers' precautions and directions for use when using solvents.

3. Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F). 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.

### Suggested Applications

A firm silicone pressure sensitive adhesive system is coated on one side of a polyester film carrier and a high performance acrylic adhesive is coated on the other side of the carrier. The silicone adhesive features strong holding power to various silicone surfaces, good temperature performance and good solvent resistance.

This tape also features high adhesion of the acrylic adhesive to a variety of surfaces along with good temperature performance and good solvent resistance.

Bonding silicone gaskets to metal or glass surfaces.

Bonding silicone rubber pad to the glass.

Splicing silicone coated papers.

Ideal for die cutting application (key pad for calculators and microwave ovens).

Splicing polyester flexo printing plates.

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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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