



8403 Polyester Tape

Product Data Sheet

Updated : March 1996
Supersedes : October 1993

Product Description Polyester film backing with a translucent green pigmented silicone adhesive.

Physical Properties
Not for specification purposes

Adhesive Type	Translucent green pigmented silicone.	
Backing	40 µm polyester film.	
Thickness (ASTM D-3652)	60 µm	
Tape Colour	Green	
Shelf Life	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

Performance Characteristics
Not for specification purposes

Adhesion to Stainless Steel ASTM D-3330	2.9 N/10mm	
Tensile Strength ASTM D-3759	77.2 N/10mm	
Elongation at Break ASTM D-3759	150 %	
Temperature Range Maximum Minimum	177 °C - 50 °C	Removes cleanly after 3 hours in Autoclave at 177°C

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Application Techniques	Best results are attained when applied to a clean, dry and non dusty surface above 0°C.	To improve adhesion ensure firm and even application pressure is applied.
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Applications	Masking edges of overlap seams in metal bonding process. Excess epoxy ("flash") flows on to tape. Clean-up is complete upon tape removal. No. 8402 should also be considered for this use where a thinner backing is required.	Protective overall mask on panels subject to mild caustic or acid bath etching. Prevents scratches during handling and provides desired masking during metal bonding and fabrication operations. Splicing of films subject to high temperatures.	Holding parts or vacuum bags during bonding process. Mask for metal in acid or caustic chemical milling baths. Excellent masking material for parts in anodising processes.
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FEATURES

Polyester film.

Silicone adhesive.

ADVANTAGES

Abrasion, chemical and thermal resistance.

Retains flexibility from -50° C to 205°C.

Higher heat resistance as compared with acrylics.

Chemical resistance.

BENEFITS

Reduces failures from backing breakdown or shrinkage.

Reduces failures due to cracking.

Reduces failures due to softening, oozing, adhesive transfer and high temperature splice slippage.

Reduces failures due to undercutting.

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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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