



361 Glass Cloth Tape

Product Data Sheet

Updated : March 1996
Supersedes : October 1993

Product Description

White woven glass cloth provides good tensile strength with all the ageing properties of glass. The silicone adhesive coating gives good adhesion properties and high temperature performance.

Physical Properties

Not for specification purposes

Adhesive Type	Thermosetting silicone.	
Backing	Glass cloth.	
Thickness (ASTM D-3652)	180 µm	
Tape Colour	White	
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	4.4 N/10mm	
Tensile Strength ASTM D-3759	233 N/10mm	
Elongation at Break ASTM D-3759	5.0 %	
Temperature Range Maximum Minimum	230 °C -55 °C	

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Additional Product Information	<p>It will withstand intermittent temperatures up to 290°C or higher depending upon the type and duration of the heat source</p> <p>Continuous exposure to temperatures above 230°C will gradually deteriorate the adhesive and darken the glass cloth backing.</p>	<p>361, when cured at high temperatures, has excellent resistance to solvents. A 24 hour cure at 260°C produces maximum solvent resistance.</p> <p>Shelf life ageing is excellent for over one year under normal storage conditions.</p>	<p>On-the-job ageing is essentially permanent if the above temperature limitations are not exceeded.</p> <p>Stain resistance to most metallic surfaces is excellent, but stain tests should be conducted if the tape application is not permanent.</p>
Application Techniques	<p>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.</p> <p>2. To obtain optimum adhesion, the bonding</p>	<p>surfaces must be clean dry and well unified. A typical surface cleaning solvent is isopropyl alcohol & water. Use proper safety precautions for handling solvents.</p> <p>3. Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F).</p>	<p>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.</p>
Applications	<p>All high temperature applications requiring high tensile strength and good holding power.</p>	<p>As a back-strip for submerged arc welding.</p> <p>Permanent sealing of high temperature ducts or chambers.</p>	<p>Applications requiring heat treatment followed by clean removal of the tape with little or no stain.</p>

Features

Glass Cloth.

Silicone adhesive.

Advantages

High temperature performance.
High tensile strength.
Conformable.

High temperature performance.
Long ageing.
Good holding power.

Benefits

Provides permanent seal.

High productivity.

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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3M

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