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3M 95913

3M 95913 Polyester Tape 8402 User Manual

Model: 95913 | Brand: 3M

PRODUCT OVERVIEW

The 3M 95913 Polyester Tape 8402 is a translucent green tinted tape designed for demanding industrial applications such as anodizing, composite bonding, and splicing. It features a silicone adhesive that ensures strong bonding even on difficult surfaces like silicone-coated papers and films. This tape is engineered for chemical resistance and maintains performance across a wide range of temperatures and environments.



Figure 1: A roll of 3M 8402 Polyester Tape, showcasing its translucent green color and core markings.

KEY FEATURES AND BENEFITS

- **Temperature Resilience:** Operates effectively in temperatures ranging from -60°F (-50°C) to 350°F (177°C), maintaining flexibility even in autoclave conditions.
- **Clean Removal:** The silicone adhesive allows for clean removal from various surfaces, minimizing residue.
- **Chemical Resistance:** Both the adhesive and backing are chemical resistant, providing durability in harsh industrial environments, including anodization processes.
- **Versatile Splicing:** Ideal for splicing applications, particularly on surfaces that are typically difficult to adhere to, such as silicone-coated papers and films.
- **Easy Identification:** The translucent green backing makes the tape easily identifiable for specific applications.
- **Industrial Use:** Designed exclusively for industrial and occupational use.

SETUP AND PREPARATION

Proper preparation of the application surface is crucial for optimal adhesion and performance of the 3M 95913 Polyester Tape 8402. Ensure the surface is clean, dry, and free from dust, oil, grease, or other contaminants.

1. **Surface Cleaning:** Use an appropriate solvent (e.g., isopropyl alcohol) to clean the surface. Allow the solvent to evaporate completely before tape application.
2. **Temperature Conditions:** For best results, apply the tape in a controlled environment where the temperature is within the recommended range for adhesive application.
3. **Handling:** Avoid touching the adhesive side of the tape to prevent contamination and ensure maximum bond strength.

OPERATING AND APPLICATION

The 3M 95913 Polyester Tape 8402 is versatile for various industrial applications. Follow these general guidelines for effective use:

- **Anodizing:** Use the tape for masking during anodizing processes. Its chemical resistance ensures protection of masked areas.
- **Composite Bonding:** Apply the tape for temporary or permanent bonding in composite manufacturing, leveraging its strong silicone adhesive.
- **Splicing:** Ideal for splicing various materials, especially those with silicone coatings, due to its specialized adhesive.
- **Pressure Application:** Apply firm, even pressure across the tape after placement to ensure full contact between the adhesive and the surface, maximizing bond strength.



Figure 2: Example of industrial application, showing tape being applied to a surface.

MAINTENANCE AND STORAGE

To ensure the longevity and performance of 3M 95913 Polyester Tape 8402, proper storage is essential.

- **Storage Conditions:** Store the tape in its original packaging in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Shelf Life:** Adhere to any recommended shelf life guidelines provided by 3M to ensure optimal adhesive performance.
- **Handling:** Protect the tape rolls from physical damage, dust, and moisture.

TROUBLESHOOTING

If you encounter issues with the tape's performance, consider the following common troubleshooting steps:

- **Poor Adhesion:**
 - Ensure the surface was thoroughly cleaned and dry before application.
 - Verify that sufficient pressure was applied during tape application.
 - Check if the tape has been stored correctly and is within its shelf life.
- **Residue After Removal:**
 - While designed for clean removal, excessive heat or prolonged exposure beyond recommended limits might affect performance.
 - Ensure the tape is removed at an appropriate angle and speed.
- **Tape Breaking/Tearing:**
 - Check for any nicks or damage to the tape roll before use.
 - Ensure proper tension is maintained during application.

SPECIFICATIONS

Attribute	Detail
Model Number	95913

Attribute	Detail
Brand	3M
Color	Translucent green
Material	Silicone (adhesive)
Recommended Uses	General Industrial, Electrical
Temperature Range	-60°F (-50°C) to 350°F (177°C)
Package Dimensions	13 x 9.88 x 9.75 inches
Item Weight	2.85 ounces

IMPORTANT SAFETY INFORMATION AND LEGAL DISCLAIMER

For Industrial/Occupational Use Only. Not for consumer sale or use.

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SUPPORT AND CONTACT

For additional product information, technical assistance, or support, please visit the official 3M website or contact 3M customer service.

- **Official Website:** www.3M.com
- **Brand Store:** [3M Industrial Amazon Store](#)