



Performance Plus Duct Tape Nuclear Grade 8979N

Technical Data

August, 2006

Product Description 3M™ Performance Plus Duct Tape Nuclear Grade 8979N has a unique tape construction that allows for both permanent and temporary applications whether indoors or outdoors. It is removable with little or no adhesive residue from most opaque surfaces up to 6 months after application. 3M duct tape 8979N is also UV resistant for one year. It will not delaminate or deteriorate in sunlight. The tape is conformable, abrasion resistant, and water resistant. The polyethylene film and cloth scrim construction provides straight, easy tear with high tensile strength for the most demanding applications.

| Product Construction | Backing | Adhesive | Colors | Standard Roll Length | Standard Roll Widths |
|----------------------|------------------------------------|----------------------------|------------|----------------------|---|
| | Polyethylene film over cloth scrim | Natural & Synthetic Rubber | Slate Blue | 54.8 m (60 yds.) | 48, 72 & 144 mm (1.89, 2.83 & 5.67 in.) |
| | | | Red | 54.8 m (60 yds.) | 24, 48 & 72 mm (0.94, 1.89 & 2.83 in.) |

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

| | | Test Method |
|----------------------------------|----------------------------------|--|
| Adhesion to Steel: | 52 oz./in. width (57 N/100 mm) | ASTM D-3330 |
| Tensile Strength: | 36 lbs./in. width (643 N/100 mm) | ASTM D-3759 |
| Elongation at Break: | 21% | ASTM D-3759 |
| Thickness: | 12.6 mils (0.33 mm) | ASTM D-3652 |
| Clean Removal - outdoors: | 6 months | ASTM G7 (AZ, stainless steel) |
| Clean Removal - indoors: | 6 months | tested on various opaque surfaces over temp range of 40° to 120°F (4° to 49°C) |
| Flame Spread Index: | 5 | ASTM E-84 |
| Smoke Developed Index: | 0 | ASTM E-84 |
| Temperature Use Range: | Up to 200°F (93°C) | |
| Leachable Halogens: (Cl, Fl, Br) | <200 ppm | MIL-STD-2041D |
| Leachable Sulfur: | <200 ppm | MIL-STD-2041D |

Features

- Complies with ASME NQA-1 [supercedes ANSI N45.2.2 and NRC 1.38 Para. 2C Div A3.5(1)(A)] and MIL-STD-2041D.
- Certificate of compliance by individual lot is included in each carton.
- Meets UL 723, HUD, and BOCA codes.
- Backing is curl resistant and conformable making it easy to handle and apply.
- The rubber adhesive bonds well to most surfaces and has excellent initial stick. Once in place, it stays where you put it. One tape may be used for many applications with little waste.

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Features *(continued)*

- Unwinds from the roll easily making it convenient to use and preventing user fatigue.
- The slate blue and red colors are distinct to insure the correct tape is used for outdoor and removable applications.

Application Ideas

- Ideal for demanding duct tape applications in the nuclear power plant, ship building, and stainless steel fabrication industries.
- Sealing end caps, color coding, holding dosimeters to stainless steel pipe.
- Patching, reinforcing, bundling, moisture proofing, sealing, splicing, temporary repair.
- Taping and splicing insulation, capping pipe and conduit, marking and labeling.
- Hanging polyethylene drapes, and general construction and maintenance activities in nuclear power facilities.
- Maintenance, holding, packaging, wrapping.

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 24 months from date of manufacture.

Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

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