

3M

Plastic Film Tape

471

FOD# 1473

page 1 of 3

Technical Data

January 1, 1999

Product Description

Colored (10 colors and transparent) vinyl plastic film tape with a rubber adhesive ideal for many color coding, abrasion protection, decoration, sealing, patching, splicing, wrapping and general purpose applications. Excellent for many lane marking application.

Product Construction

Backing: Pigmented and transparent vinyl plastic

Adhesive: Rubber

Color: Yellow, white, red, black, brown, green, orange, red-orange, purple, transparent, blue

Standard Roll Length: 36 yds. (33 m)

Standard Widths Available: 1/4, 1/2, 3/4, 1, 2, 3 in. (6, 13, 19, 28, 50, 75 mm)

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.

ASTM TEST METHOD

Properties for all colors except red-orange, purple and transparent:

Adhesion to Steel:	23 oz./in. width (25 N/100 mm)	D-3330
Tensile Strength:	16 lbs./in. width (280 N/100 mm)	D-3759
Elongation at Break:	130%	D-3759
Backing Thickness:	4.1 mils (.10 mm)	D-3652
Total Tape Thickness:	5.2 mils (.13 mm)	D-3652

Properties for red-orange:

Adhesion to Steel:	19 oz./in. width (21 N/100 mm)	D-3330
Tensile Strength:	20 lbs./in. width (350 N/100 mm)	D-3759
Elongation at Break:	70%	D-3759
Backing Thickness:	4.0 mils (.10 mm)	D-3652
Total Tape Thickness:	5.4 mils (.14 mm)	D-3652

Typical Physical Properties (cont.)

ASTM TEST METHOD

Properties for purple:

Adhesion to Steel:	22 oz./in. width (24 N/100 mm)	D-3330
Tensile Strength:	17 lbs./in. width (300 N/100 mm)	D-3759
Elongation at Break:	220%	D-3759
Backing Thickness:	5.8 mils (.15 mm)	D-3652
Total Tape Thickness:	7.0 mils (.18 mm)	D-3652

Properties for transparent:

Adhesion to Steel:	26 oz./in. width (28 N/100 mm)	D-3330
Tensile Strength:	16 lbs./in. width (280 N/100 mm)	D-3759
Elongation at Break:	180%	D-3759
Backing Thickness:	4.1 mils (.10 mm)	D-3652
Total Tape Thickness:	5.4 mils (.14 mm)	D-3652

General Information

1. Best results are obtained when applied to clean, dry surfaces, between 60-85°F (15-27°C). For low temperatures or contaminated surfaces, it is recommended that 3M™ 81 Tape Primer be used to achieve optimum holding strength. NOTE: Be sure to read primer precautions and directions for use before using.
2. Pigmented backing maintains vivid colors even when exposed to heavy abrasion.
3. Conformability and dead stretch properties are ideal for taping, wrapping or sealing many curved or irregular surfaces.

NOTE: While 471 tape resists many common solvents, 471 tape should not be exposed to ketones, chlorinated hydrocarbons and esters found in lacquer thinner, degreasers, paint strippers, etc., which may cause the backing to swell or curl.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture and store under normal conditions of 60-80°F (15-27°C) and 40-50% R.H. relative humidity.

Features

FEATURES

4 mil pigmented vinyl backing

ADVANTAGES

Longer life than many competitive products which are surface printed

Readily conformable to many irregular surface

Abrasion resistant

Dead stretch properties

BENEFITS

Long periods between rework

Helps improve productivity

Effective seal

Long application life

Provides straighter line for masking, marking and scaling applications than many backings which stretch more