

3M™ Vinyl and Polyethylene Tapes

Key Customer Markets

- ◆ MRO
- ◆ Metal Finishing

Conformable

For many applications such as fine line paint masking, surface protection and identification. In this area, no backing type outperforms vinyl and polyethylene.

Clean Removal

Our specially formulated adhesive systems have been successfully used for many years in many applications requiring clean removal.

Color Coding

Ten different colors are available with 3M™ Vinyl Tape 471, and seven different colors available with 3M™ Polyethylene Tape 483, making these products ideal for many of your color coding, identification and decorative requirements.

Abrasion Resistant

The “color throughout” concept used in manufacturing 3M vinyl and polyethylene backings give these products extra wear life for many applications that require resistance from abrasion, such as aisle marking.

Chemically Resistant

The chemical resistance of both vinyl and polyethylene backings make these products ideal for many applications, such as metal plating, that involve exposure or resistance to chemical environments.

PRODUCT INFORMATION

Product/ Color	Tape Structure (Backing/Adhesive)	Backing Thickness mils (mm)	Total Thickness mils (mm) (N/100 mm)	Adhesion to Steel oz./in. (N/100 mm)	Tensile Strength lbs./in. (N/100 mm)	Elongation at Break %	Temperature Range F (°C)	Comments
ASTM Test Method:		D-3652	D-3652	D-3330	D-3759	D-3759		

VINYL TAPES

Premium Performance Vinyl Tapes

471	Vinyl/Rubber	4.1 (0.10)	5.2 (0.13)	23 (25)	16 (280)	130	40 to 170°F (4 to 77°C)	Black, Blue, Brown, Green, Orange, Purple, Red, Transparent, White, Yellow
472/Black	Vinyl/Rubber	9.0 (0.23)	10.4 (0.26)	23 (25)	32 (560)	270	Up to 225°F (107°C)	Abrasion resistant.
474/Gray	Vinyl/Rubber	5.2 (0.13)	6.3 (0.16)	23 (25)	20 (350)	210	40 to 170°F (4 to 77°C)	Flame resistant. ¹
477/Transparent	Vinyl/Rubber	6.0 (0.15)	7.2 (0.18)	24 (26)	24 (420)	230	40 to 170°F (4 to 77°C)	Abrasion resistant.
4731/Purple	Vinyl/Rubber	6.0 (0.15)	7.0 (0.18)	20 (22)	18 (315)	245	40 to 170°F (4 to 77°C)	Electroplating.

General Purpose Vinyl Tapes

764	Vinyl/Rubber	4.0 (0.10)	5.0 (0.125)	18 (21)	13 (228)	180	60 to 85°F (15 to 27°C)	Non-critical applications.
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Hazard Identification Tapes — Premium Performance Permanent

5700/Black & White Stripes	Vinyl/Rubber	4.2 (0.11)	5.5 (0.14)	19 (21)	15 (260)	170	40 to 170°F (4 to 77°C)	Adhesive side printing. Critical applications.
5702/Black & Yellow Stripes	Vinyl/Rubber	4.2 (0.11)	5.4 (0.14)	19 (21)	15 (260)	170	40 to 170°F (4 to 77°C)	Adhesive side printing. Critical applications.
6900	Film/Vinyl	3.6 (0.09)	11.4 (0.29)	112 (123) ^a	21 (368) ^b	118 ^c	-30 to 200°F (-34 to 90°C) ^d	Safety and emergency exit signage.

Hazard Identification Tapes — General Performance Temporary

766/Black & Yellow Stripes	Vinyl/Rubber	4.0 (0.10)	5.0 (0.125)	18 (21)	13 (228)	180	60 to 85°F (15 to 27°C)	Non-critical applications.
767/Red & White Stripes	Vinyl/Rubber	4.0 (0.10)	5.0 (0.125)	18 (21)	13 (228)	180	60 to 85°F (15 to 27°C)	Non-critical applications.

Electroplating & Anodizing

470/Tan	Vinyl/Rubber	6.3 (0.16)	7.1 (0.18)	26 (28)	20 (350)	180	Up to 170°F (77°C)	Chemical resistance. ²
484/Tan	Vinyl/Rubber	5.7 (0.14)	7.2 (0.18)	20 (22)	20 (350)	220	Up to 170°F (77°C)	Lower adhesion than 470 Tape.

POLYETHYLENE TAPES

480/Transparent	Polyethylene/Acrylic	3.8 (0.10)	5.1 (0.13)	22 (24)	10 (180)	277	20 to 170°F (-7 to 77°C)	Acrylic adhesive.
481/Black	Polyethylene/Rubber	7.5 (0.18)	9.5 (0.24)	25 (28)	15 (260)	523	Up to 170°F (77°C)	Preservation sealing tape. ³
4811/White	Polyethylene/Rubber	7.5 (0.18)	9.5 (0.24)	30 (36)	15 (260)	490	Up to 170°F (77°C)	Preservation sealing tape.
483	Polyethylene/Rubber	3.9 (0.10)	5.3 (0.13)	12 (13)	11 (190)	240	Up to 170°F (77°C)	Black, Blue, Green, Red, Transparent, White, Yellow

¹ F.A.R. 25.853 (a)

² HH-T-0025, Amend 2

³ MIL-T-22085 Amend 3, Type IV

⁴ Adhesion to Aluminum (3105 H24 alloy) — five days @ 38°C (100°F) and 100% RH oz./in. (N/100 mm)

⁵ Per ASTM Test Method D-882

⁶ Service Temperature Range

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