

# 3M™ Protective Tapes Selection Guide

Surface Protection — Temporary



Total Tape Thickness			1.3 Mil (0.03 mm)		2.0 Mil (0.05 mm)																	
			Product Number (Color Coded by Tape Family)		1614	1675	2104	2105	2110	2112	2125	2126	2187	24S56W	2A04	2A05	2A10	2A12	2A25	2A26	2A29	
Backing (with acrylic adhesive)			PET	PET	PE	PE	PE	PE	PE	PE	PE	PP	Co-Ex.	Co-Ex.	Co-Ex.	Co-Ex.	Co-Ex.	Co-Ex.	Co-Ex.			
Tack Level*			VL	VL	VL	VL	L	L	M	M	H	M	VL	VL	VL	L	M	M	M			
Metals - Uncoated	Aluminum	Mill Finished																				
		Galvanized																				
		Anodized Specular																				
		Anodized - Flat																				
	Stainless Steel	#2B Annealed																				
		#4 Mill Polished																				
		#8 Mirrored																				
Steel	Laser Cuttable																					
Coated - Steel or Aluminum	Embossed	Flat																				
		Gloss																				
		Matte																				
		Bronze																				
		Dissimilar Metals																				
		Automotive Clear Coat																				
Glass		CRT Screens																				
		LCD Screens																				
		Mirrors																				
	Window and/or Frame	UV Application																				
	Non UV																					
Plastics	Molded	ABS (Matte Finish)																				
		Acrylic (Smooth Finish)																				
		Injection Molded (Gloss)																				
		Polycarbonate (Gloss)																				
		Polyester (Gloss)																				
	Spas	Acrylic																				
		Gel Coat																				
	Hot Tubs	Non-Skid																				
	Sheeting	Acrylic																				
		HDPE (Matte)																				
		Polished Polycarbonate																				
		Polyester																				
Laminates	Gloss																					
	Matte																					
	Solid Surface																					
Flooring	Carpeting	FR**	Treated																			
			Non-Treated																			
		Low Pile	Treated																			
			Non-Treated																			
		High Pile	Treated																			
			Non-Treated																			
Other		Decal/Pinstriping/Vinyl																				
		Cultured Marble																				

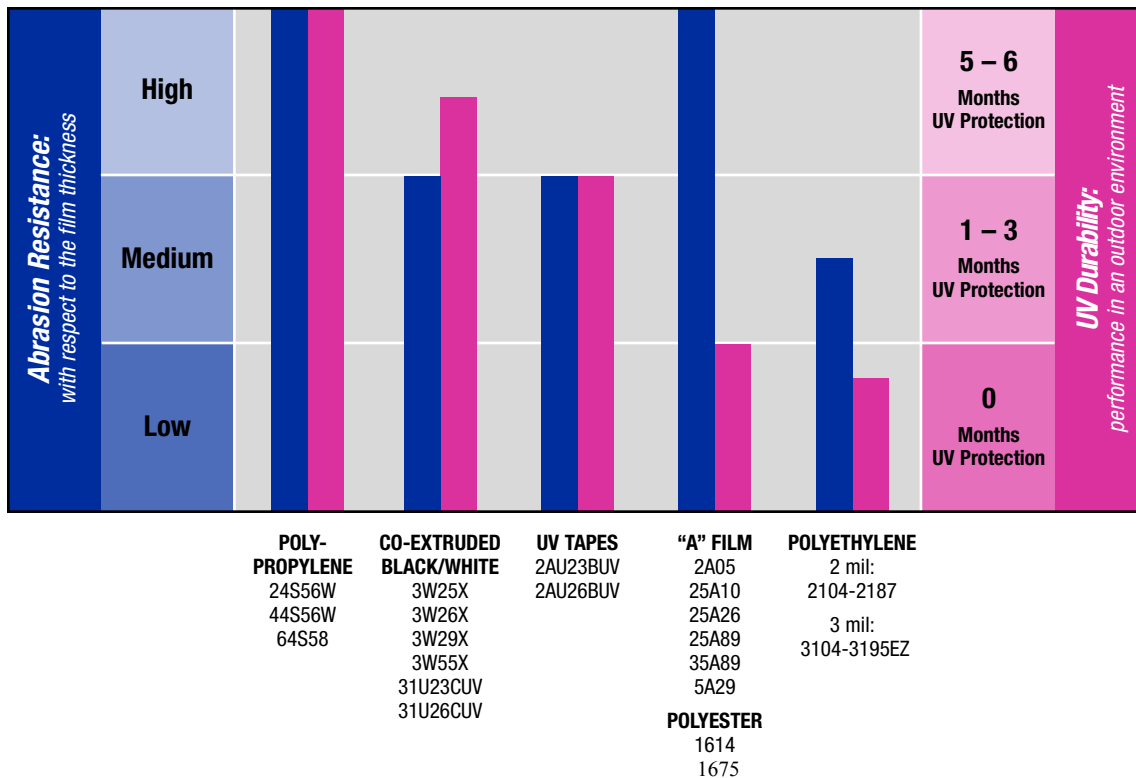
\* Tack Level: VL=Very Low, L=Low, M=Moderate, H=High, VH=Very High  
 \*\* FR = Fire Retardant

Polyethylene	Carpet	"A" Tapes
UV	Fire Retardant	Polyester
UV - Black/White	Cold Seal®	Polypropylene





# Abrasion Resistance and UV Durability



## Thickness Selection Criteria

Thickness is positively proportional to abrasion resistance and some other important film properties (scratch resistance, puncture resistance, ultimate tension, etc.) and negatively proportional to conformability. Thicker/stiffer films may be more easily applied to flatter surfaces in hand applications

than thinner/more conformable films in general. Thicker films may offer more of a cushion in certain applications separating parts/pieces in a box or items dropped (tools), for example, than thinner tougher films. Thicker films are more costly so application specifics and price points need to be considered.

## Productive Tape Product Families



### Polyethylene Tapes

- Better transparency
- Good abrasion resistance
- Cost effective



### Cold Seal® Films

- Clear film that seals to itself
- Ideal for packaging small parts
- Tamper proof packaging



### UV Tapes – Clear and Blue

- Outdoor UV resistance for up to 5 months
- Available in transparent and blue



### Co-Extruded "A" Tapes

- The best choice in a 3M™ Protective Tape
- Excellent conformability
  - Enhanced abrasion and puncture resistance
  - Good heat resistance



### UV Tapes – Co-Extruded Black/White

- Enhanced outdoor UV resistance for up to 6 months



### Carpet Tapes

- Good transparency
- Easy unwind



### Polyester Tapes

- Best optical clarity
- Excellent heat resistance
- Excellent puncture resistance



### Fire Retardant Tapes

- Complies with many fire retardant tests
- Stays in place during use
- Removes cleanly



### Polypropylene Tapes

- Good abrasion resistance
- Good heat resistance
- Good short term outdoor UV resistance

# 3M™ Protective Tapes General Information

- Standard web sizes vary by backing. Typical widths are 48" (1219mm), 60" (1524mm) and 72" (1828mm). Typical roll length is 1000' (304m).
- All tapes are custom slit. Custom sizes are available as follows: widths of 2" (50.8mm) to 72" (1828mm), lengths up to 5,000' (1524m).
- Available custom\* options: Cross Perforations, Center Perforations, Colored Film, Zone Coated Film and Printed Film.
- Inventory is rotated on a first in/first out method. It is recommended that 3M™ Protective Tape Products be used within 12 months of their manufacture date.
- Recommended storage temperature is 60-80° F (16-27° C) and a relative humidity range of 40-60%.
- Surface preparation is important. The substrate should be clean and free from residue, such as dust and oil, when the tape is applied in order to achieve optimum adhesion.
- 3M™ Protective Tape Products should be applied to and removed from substrates at a temperature not less than 60° F (16° C) for optimum performance.

**Note:**

If 3M™ Protective Tapes Products become wet after being applied to a substrate, the tape should be allowed to completely dry before being removed.

\* Minimums for custom options may apply.

Contact your local 3M representative, or for further assistance call 3M/PolyMask Corporation at **1-800-624-4772**.

## Tape Number Identification Guide

**Film Thickness**  
(nominal thickness in mils)  
Exception: 25A10 - 25 = 2.5 mils

**Film Color**

- B - Blue
- C - Clear
- W - White
- X - Black/White
- No Letter - Clear

3W26X

**Film Type**

- 1 LDPE
- 4 Polypropylene
- 6 Polyester
- A Co-Extruded PE
- E Co-Extruded PE (Carpet Tape Only)
- U Translucent UV Stable Film
- W Co-Extruded PE - Black/White

**Adhesive Type**

**Adhesives:**

- 04, 05, 10
- 12, 14, 23, 42, 73
- 25, 26, 29, 43, 56, 58
- 67, 79, 82, 87, 88, 89
- 93EZ, 95EZ

**Tack Level:**

- Very Low = VL
- Low = L
- Moderate = M
- High = H
- Very High = VH

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