Foam Tape

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Introduction

Panduit double-coated polyethylene foam mounting tape provides a means for holding, joining, or bonding to a wide variety of surfaces. Panduit foam mounting tape offers the advantage of lower installed cost with a safe, easy to use, quality tape product.

Markets

- Electronic Components
- Transportation Industry
- Packaging Industry
- Appliance Manufacturing
- Furniture Manufacturing

Product Applications

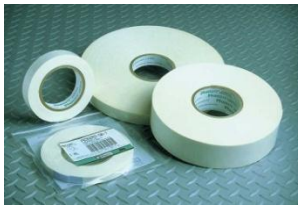
Mounting - Provides a neat, clean, easy to use method to secure name plates, plastic or metal trim, logos, smoke alarms, hooks, bathroom accessories, air fresheners, cup dispensers or holders, phone jacks, signs, reflectors……

Assembling - An alternative to other fastening methods for refrigerator doors, stereo speakers, air conditioners, x-ray equipment, and other machinery…

Joining - Will adhere to dissimilar surfaces such as glass, metal, wood plastic…….

Product Features

- Thorough Quality Control Testing insures consistent product quality. Each production lot is traceable to date and conditions of manufacture by reference to the quality control number on each roll.
- -- Both rubber and acrylic adhesive tapes are **UL** recognized*
- Only high density, closed cell cross linked polyethylene foam is used
- Once properly applied, lower temperatures do not adversely affect the bond
- Adheres to a variety of surfaces
- Easy to use and apply
- Packaging in sealed bags for standard rolls gives long shelf life
- Functional part number system



* Panduit foam tapes comply to UL746C (File # MH17481)

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Types of Adhesive

Panduit foam tape is available with either rubber or acrylic adhesive. Refer to the charts below to determine which adhesive is best for an individual application.

Rubber Adhesive Tape is generally used for many applications where moderate temperatures are involved. It offers better initial adhesion than most acrylics and adheres better to a wide variety of materials.

Acrylic Adhesive Tape has a higher temperature rating and is generally used where exposure to ultraviolet light will occur. Acrylic adhesive ages better than rubber adhesive and also resists moisture better.

ADHESIVES CHARACTERISTICS	RUBBER	ACRYLIC
Temperature Resistance	Good	Best
Moisture Resistance	Good	Best
Initial Adhesion	Best	Fair
Long Term Adhesion	Good	Good
Shear Strength	Best	Good
Normal Tensile Strength	Best	Good
Initial 180º Peel Adhesion	Best	Good
Solvent Resistance	Good	Good
UV Resistance	Fair	Best
Life	Good	Best

Surfaces

Adhesive- surface selection chart

Adhesive
R = Rubber
A = Acrylic

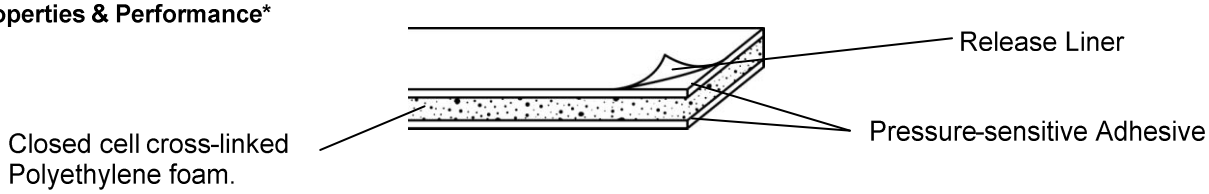
Performance
1 = Best
2 = Good
3 = Fair

	Polyolefin	Nylon	Rubber	Paper	Metal	Glass	Paint	Acrylic	Poly-styrene	ABS	Poly-carbonate	Vinyl, Rigid
Vinyl, Rigid	R-3 A-3	R-1 A-2	R-1 A-3	R-1 A-2	R-2 A-1	R-2 A-1	R-1 A-1	R-2 A-1	R-2 A-1	R-1 A-2	R-2 A-1	R-2 A-1
Polycarbonate	R-2 A-3	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-1	R-2 A-1	R-1 A-2	R-1 A-1	R-1 A-2	R-1 A-2	R-1 A-2	**
ABS	R-2 A-3	R-1 A-2	R-1 A-3	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-2	**	**
Polystyrene	R-3 A-3	R-1 A-3	R-1 A-3	R-1 A-3	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-2	**	**	**
Acrylics	R-2 A-3	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-1	R-1 A-1	R-1 A-1	R-2 A-1	**	**	**	**
Paint	R-2 A-3	R-1 A-2	R-1 A-2	R-1 A-2	R-1 A-1	R-1 A-1	R-1 A-2	**	**	**	**	**
Glass	R-2 A-2	R-1 A-1	R-1 A-2	R-1 A-2	R-1 A-1	R-2 A-1	**	**	**	**	**	**
Metal*	R-2 A-3	R-1 A-1	R-1 A-2	R-1 A-2	R-1 A-1	**	**	**	**	**	**	**
Paper	R-3 A-3	R-1 A-2	R-1 A-2	R-1 A-2	**	**	**	**	**	**	**	**
Rubber	R-2 A-3	R-1 A-3	R-1 A-3	**	**	**	**	**	**	**	**	**
Nylon	R-2 A-3	R-1 A-2	**	**	**	**	**	**	**	**	**	**
Polyolefins	R-3 A-3	**	**	**	**	**	**	**	**	**	**	**

**Acceptable on metals such as stainless steel, aluminum, tin, etc., not recommended on copper or brass*

Foam Tape

Properties & Performance*



		Rubber Adhesive	Acrylic Adhesive
Nominal Thickness & General Part Number		1/32* P32W2R1	1/32* P32W2A2
Foam Material		Polyethylene	Polyethylene
Foam Density (lb/ft³)		6	6
Liner		Poly-coated Bleached Kraft Paper	
Thickness (in.) (PSTC-133)	Total	.040	.039
	Less Liner	.035	.034
180º Peel Adhesion (1 hour dwell)	Roll Side	Foam Rip	Foam Rip
	Liner Side	Foam Rip	Foam Rip
Static Shear MIL-T-60394A (Hours)	72ºF / 17.6 psi	500+	N/A
	72ºF / 8.8 psi	1000+	N/A
	158ºF / 2.2 psi	100+	200+
Tensile Strength (lbs./in. width) (PSTC-131)		5	5
Elongation % (PSTC-131)		500	500
Normal Tensile (psi)		65	50
Temperature Resistance (ºF)	Continuous	-20 to 120	-20 to 180
	Intermittent (< 8 hours)	156	200
Shelf Life (yrs) at 70º F/ 50% R.H. (in original bag)		5	5
Shelf Life (yrs) at 70º F/ 50% R.H. (outside of bag)		2	2

** Test data has been obtained using standard test methods and typical results are given; not to be used for specification purposes*

Foam Tape

Product Selection

Part Number System

P	32	W	2	R1	100	72
Type P = Polyethylene	Thickness 32 = 1/32"	Foam color W = White	2= Double Sided adhesive	R1 = Rubber based A2 = Acrylic	Width in inches multiplied by 100 50 = 1/2" 75 = 3/4" 100 = 1" 150 = 1 1/2"	Length (yards) 7 72

Complete list of part numbers.

TYPE	PANDUIT PART NUMBER 1/32" THICK
RUBBER ADHESIVE DOUBLE-SIDED	P32W2R1-50-7 P32W2R1-75-7 P32W2R1-100-7 P32W2R1-50-72 P32W2R1-75-72 P32W2R1-100-72 P32W2R1-150-72
ACRYLIC ADHESIVE DOUBLE-SIDED	1/32" THICK P32W2A2-50-7 P32W2A2-75-7 P32W2A2-100-7 P32W2A2-50-72 P32W2A2-75-72 P32W2A2-100-72

Available in widths of 1/2", 3/4" 1" (Rubber & Acrylic)
Available in widths of 1 1/2" (Rubber Only)

Convenient Carton Quantities

Rolls of Panduit Foam Tape are conveniently packaged so that you can order in multiples of carton quantity for best delivery and pricing.

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Application Techniques

Temperature
It is recommended that Panduit adhesive tape be applied on surfaces whose temperature is approximately 70º F (21º C) or higher for the initial bond, for best results.

Dwell Time
Panduit foam mounting tape develops an immediate bond to most surfaces. Adhesive strength and performance will increase with time after initial application. The optimum recommended dwell time prior to loading for rubber adhesive is 2 hours and for acrylic adhesive is 8 hours.

Preparation
Panduit tape should be applied to a clean, dry, grease-free surface with sufficient pressure to assure good adhesive contact. Avoid adhesive contamination with foreign material.

Amount of Tape to Use
Recommended loading is ½ pound per square inch of tape area. Testing should be performed for each type of loading on various surfaces, before use.

Tape Removal
A thin wire or razor blade can be moved between surfaces to remove adhesive tape. A solvent or scraper may remove the remaining residue.

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