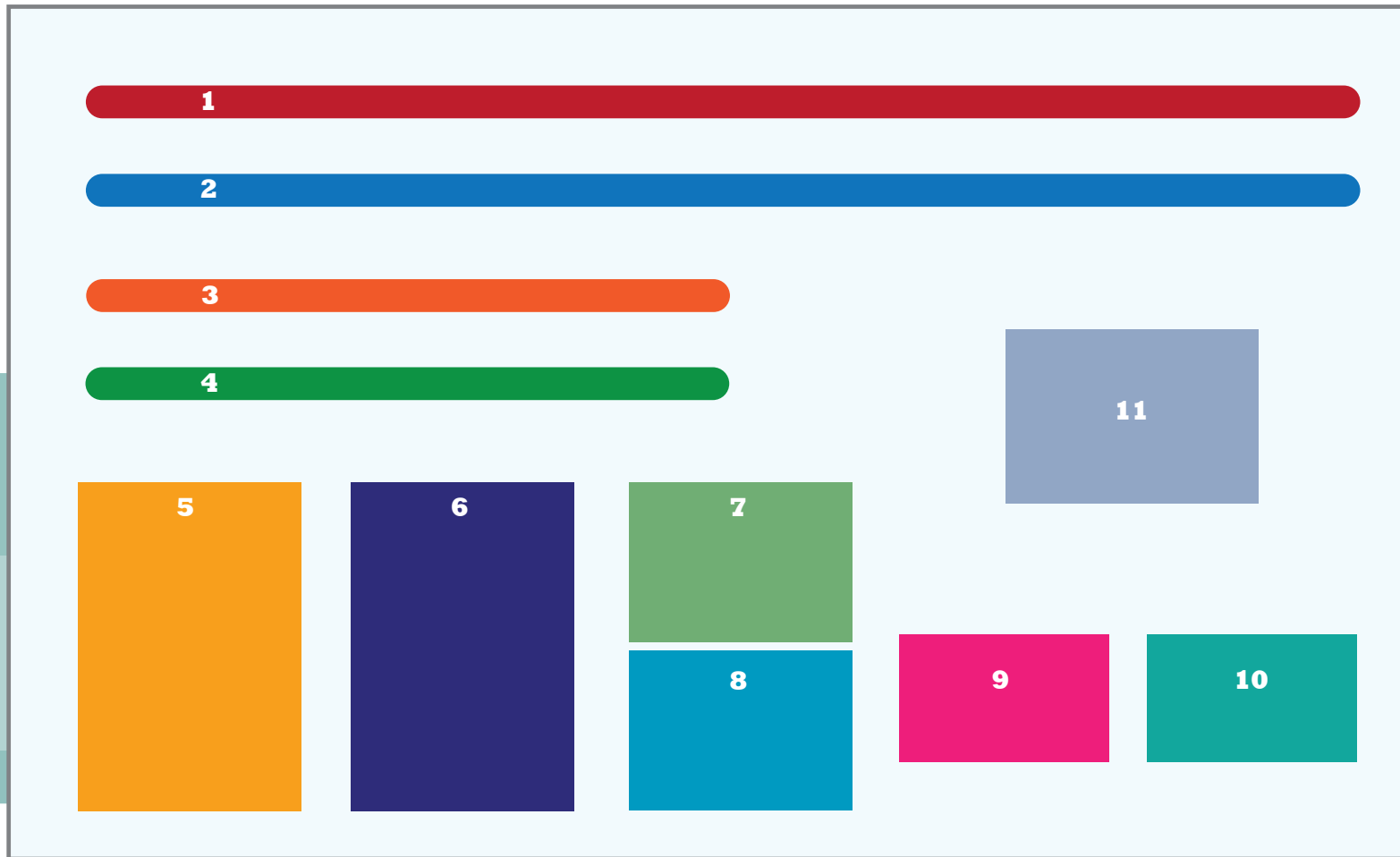




Design Engineer Tape Kit

Solutions Seminar



1
3M™
Glass Cloth Tape
361

3M 361 is a glass cloth tape that is coated with a silicone adhesive for high temperature resistance. It has strong adhesion and an abrasion resistant backing. It is a premium masking product with a tensile strength equal to 182 lbs/inch. In most applications it removes cleanly with little or no stains.

2
3M™ PTFE
Glass Cloth Tape
5451

This PTFE Glass Cloth tape has a silicone adhesive which provides a high temperature release surface for protection and insulation. Its backing is made of a woven glass cloth impregnated with PTFE. It performs in many humid environments because its moisture absorption is close to zero. It is most commonly used at a release surface on packaging and heat sealing machines as well as pressing equipment.

3
3M™ VHB™ Tape
5952

This 3M VHB tape is a very conformable closed-cell acrylic foam carrier. It bonds and seals simultaneously to withstand vibration, impact and weathering. It has good adhesion to many powder coated surfaces and plastics. It can replace screws and studs for various permanent mounting applications and reduces vibration noise in assembled parts.

4
3M™ VHB™ Tape
RP45

3M VHB Acrylic Foam Tape RP45 is a double-sided pressure sensitive adhesive tape for bonding a variety of substrates including many metals, plastics and painted metals. It is made of a closed cell conformable acrylic foam carrier.

5
3M™ Aluminum
Foil Tape
425

This aluminum foil tape provides excellent reflection of both heat and light. It has a dead-soft backing which helps to protect against high temperatures and U.V. degradation. The foil also serves as an excellent barrier against moisture, dust, flame and certain chemicals used in aircraft paint stripping and masking.

6
3M™ VHB™ Tape
4905

This VHB tape is ideal where a clear or colorless adhesive is desired. Its adhesive is suitable for high surface energy substrates including metal and glass. It is similar to a foam tape, but constructed of a solid, clear acrylic material that provides excellent clarity. It can be used to replace rivets, spot welds, liquid adhesives and other permanent fasteners.

7
3M™ Adhesive
Transfer Tape
9626C

This adhesive transfer tape features 3M Laminating Adhesive 360 which provides more strength with less adhesive and odor. It has quick stick properties to many low surface energy substrates.

8
3M™ VHB™ Adhesive
Transfer Tape
9469PC

This 3M VHB Adhesive Transfer Tape utilizes the high performance of 3M Adhesive 100MP which has excellent long term holding power with a higher adhesion strength than typical pressure sensitive adhesive systems. It is ideal for many interior and exterior industrial applications to replace rivets, spot welds, liquid adhesives and other permanent fasteners.

9
3M™ Damping
Foil Tape
2552

Damping foil helps damp vibrations on metal and plastic surfaces vibrating at their natural (resonant) frequency. It features a pressure-sensitive viscoelastic polymer and aluminum foil constraining layer that effectively converts vibrational energy to negligible heat. This process reduces irritating noises and decreases wear and tear on parts.

10
3M™ Clear
Dual Lock™
SJ3560

3M Dual Lock is a reclosable fastener much like a Velcro® product. It is self mating, which eliminates the need for male and female components. It features a clear acrylic adhesive combined with a clear backing which allows the substrate color to show through the fastener.

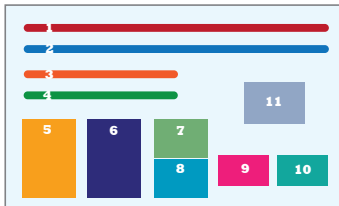
11
3M™ Extreme
Sealing Tape
4412N

3M Extreme Sealing Tape is a single coated, pressure sensitive adhesive tape designed for difficult sealing applications. The backing consists of a very tough yet flexible ionomer film. It has excellent sealing properties and good long term outdoor durability. It is designed to seal over an existing joint, seam or penetration.



Design Engineer Tape Kit

Solutions Seminar



1

3M™ Glass Cloth Tape

361

ATTRIBUTES

White Glass Cloth ■ Silicone Adhesive ■ 7.5 Mil

APPLICATION INSTRUCTIONS

1 LINER TAPE

For best results apply to a clean, dry surface.
Note: Continuous exposure to temperatures above 450°F will gradually degrade the adhesive and darken the glass cloth backing.

2

3M™ PTFE Glass Cloth Tape

5451

ATTRIBUTES

Brown PTFE Glass Cloth ■ Silicone Adhesive ■ 8.2 Mil

APPLICATION INSTRUCTIONS

1 LINER TAPE

For best results apply to a clean, dry surface.
Caution: When PTFE film tape is exposed to temperatures above 600°F, small quantities of hazardous vapors may be released

3

3M™ VHB™ Tape

5952

ATTRIBUTES

Grey ■ Closed Cell Acrylic Adhesive ■ 45 Mil

APPLICATION INSTRUCTIONS

2 LINER TAPE

For best results apply to a clean, dry surface.
Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol and water prior to applying 3M VHB Tapes. After application, the bond strength will increase as the adhesive flows onto the surface. 100% of bond strength will be achieved after 72 hours.

4

3M™ VHB™ Tape

RP45

ATTRIBUTES

Grey ■ Closed Cell Acrylic Adhesive ■ 45 Mil

APPLICATION INSTRUCTIONS

2 LINER TAPE

For best results apply to a clean, dry surface.
Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol and water prior to applying. After application, the bond strength will increase as the adhesive flows onto the surface. 100% of bond strength will be achieved after 72 hours.

5

3M™ Aluminum Foil Tape

425

ATTRIBUTES

Aluminum Foil ■ Acrylic Adhesive ■ 4.6 Mil

APPLICATION INSTRUCTIONS

For best results apply to a clean, dry surface above 32°F.

6

3M™ VHB™ Tape

4905

ATTRIBUTES

Clear ■ Closed Cell Acrylic Adhesive ■ 20 Mil

APPLICATION INSTRUCTIONS

1 LINER TAPE

For best results apply to a clean, dry surface. Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol and water prior to applying. After application, the bond strength will increase as the adhesive flows onto the surface. 100% of bond strength will be achieved after 72 hours.

7

3M™ Adhesive Transfer Tape

9626C

ATTRIBUTES

Clear Adhesive Transfer Tape ■ 3M Laminating Adhesive 360 ■ 2 Mil

APPLICATION INSTRUCTIONS

1 LINER TAPE

For best results apply to a clean, dry surface.

8

3M™ VHB™ Adhesive Transfer Tape

9469PC

ATTRIBUTES

Clear ■ 3M Adhesive 100MP ■ 5 Mil

APPLICATION INSTRUCTIONS

1 LINER TAPE

For best results apply to a clean, dry surface. To obtain optimal adhesion, the bonding surfaces must be well unified. Bond strength is dependent upon the amount of adhesive-to-surface contact developed.

9

3M™ Damping Foil Tape

2552

ATTRIBUTES

Aluminum Foil ■ Acrylic Viscoelastic Polymer Adhesive ■ 15 Mil

APPLICATION INSTRUCTIONS

1 LINER TAPE

For best results apply to a clean, dry surface.

10

3M™ Clear Dual Lock™

SJ3560

ATTRIBUTES

Clear Polyolefin Stems ■ Clear Acrylic Adhesive ■ Can Withstand Outdoor Applications

APPLICATION INSTRUCTIONS

1 LINER TAPE

Remove release liner to expose adhesive. For best results apply to a clean, dry surface.

11

3M™ Extreme Sealing Tape

4412N

ATTRIBUTES

Translucent White ■ Multi-purpose Acrylic Adhesive ■ 82 Mil

APPLICATION INSTRUCTIONS

1 LINER TAPE

Depending on the surfaces to be sealed, one of three basic surface preparations will be required: 1.) Good cleaning with a 50:50 mixture of isopropyl alcohol and water. 2.) Fine abrading with a 180x grit or finer abrasive followed by good cleaning with a 50:50 mixture of isopropyl alcohol and water. 3.) Good cleaning with a 50:50 mixture of isopropyl alcohol and water followed by application of an adhesion promoter or primer.

Warranty, Limited Remedy, and Disclaimer: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. User is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

00-0000-0000-0

Made in U.S.A. for 3M.
© 3M 2010. All rights reserved.

3M, VHB, Dual Lock are trademarks of 3M Company.

U.S. Patent Numbers:
0,000,000; 0,000,000; 0,000,000

Tape Kit Packaging Designed & Developed by TapeCase ©2010. All rights reserved.

For data sheets and more product information, visit www.tapekits.com

