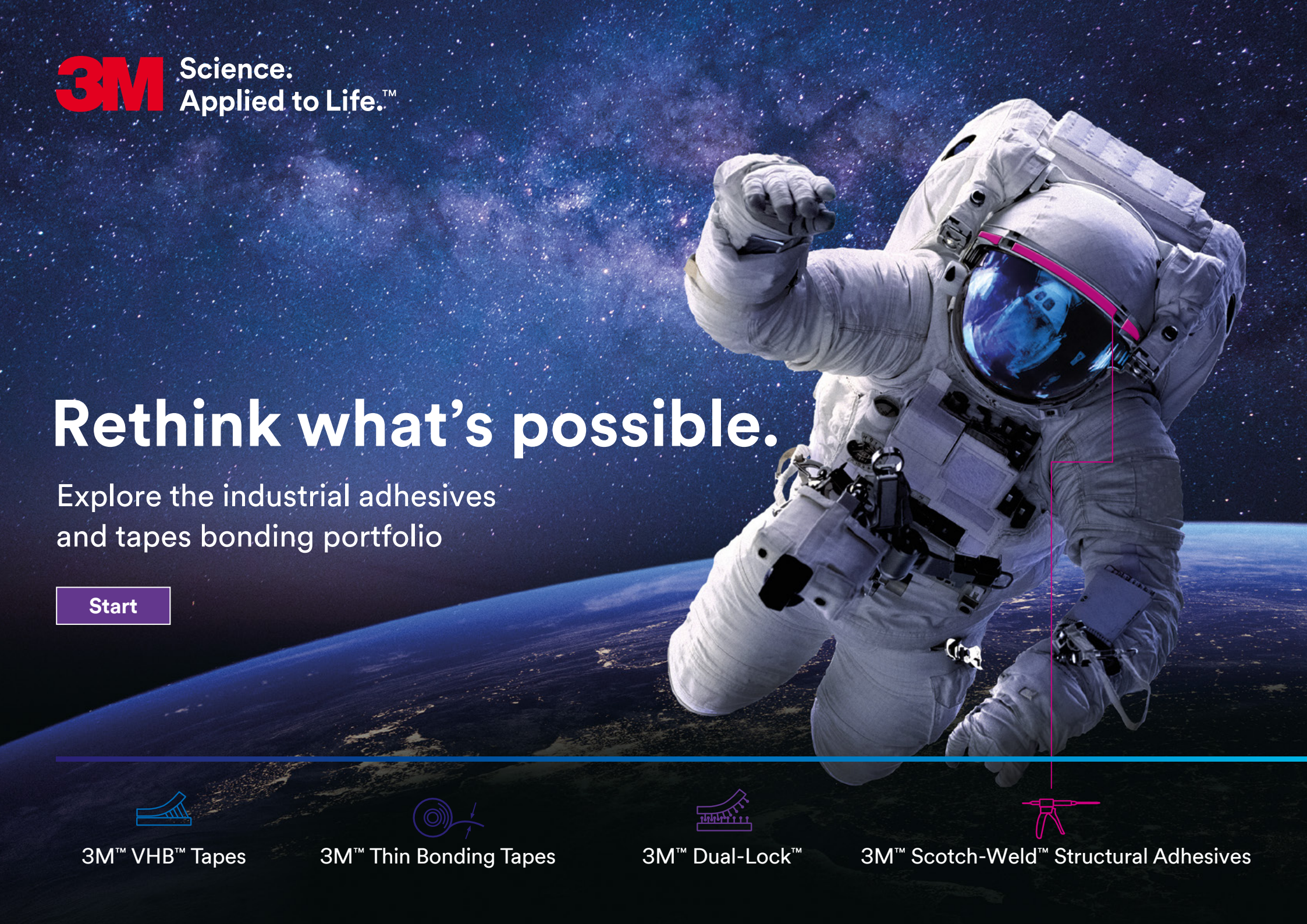

3M
Science.
Applied to Life.™
Rethink what's possible.
Explore the industrial adhesives
and tapes bonding portfolio
Start
3M™ VHB™ Tapes
3M™ Thin Bonding Tapes
3M™ Dual-Lock™
3M™ Scotch-Weld™ Structural Adhesives

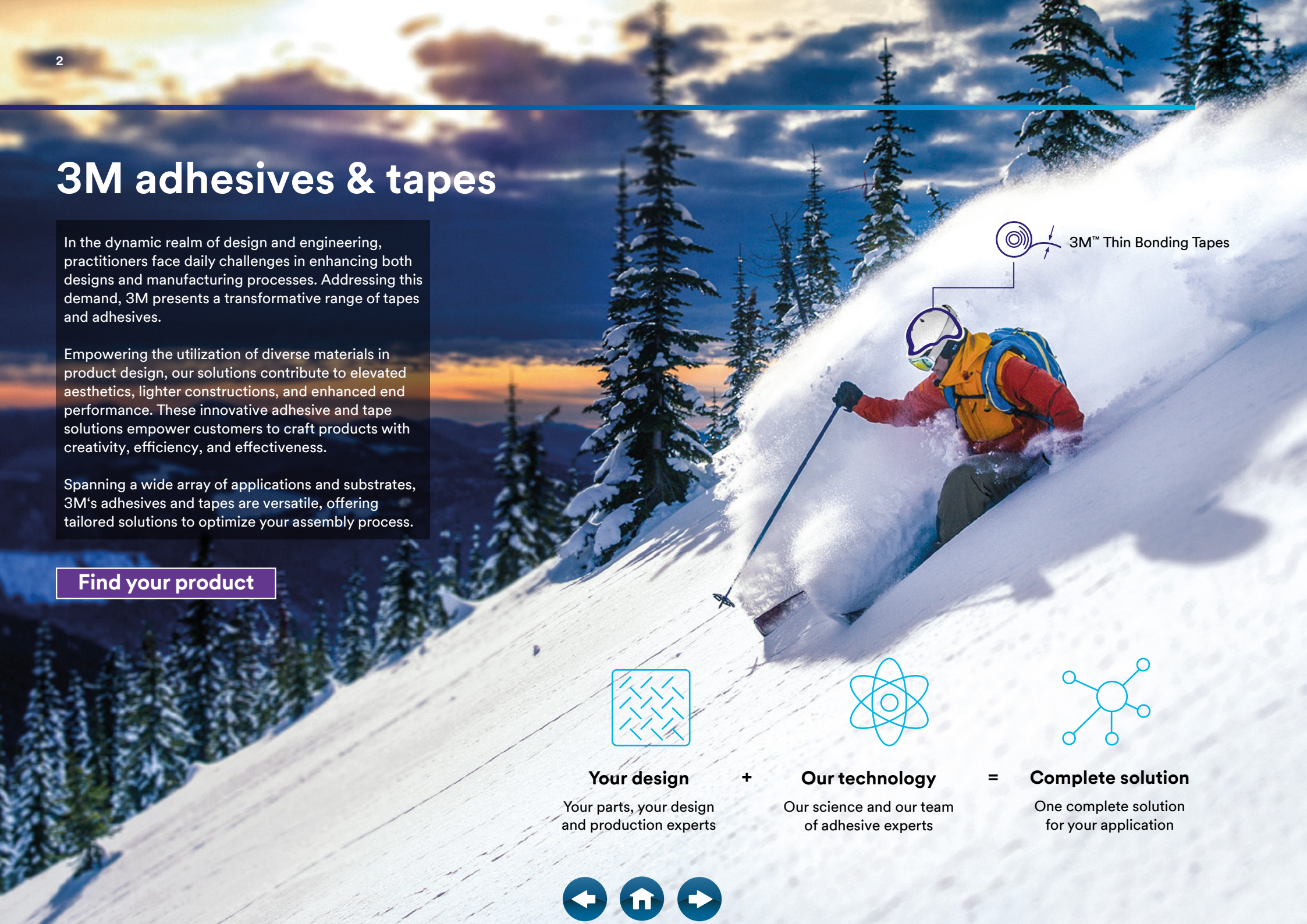
3M adhesives & tapes

In the dynamic realm of design and engineering, practitioners face daily challenges in enhancing both designs and manufacturing processes. Addressing this demand, 3M presents a transformative range of tapes and adhesives.

Empowering the utilization of diverse materials in product design, our solutions contribute to elevated aesthetics, lighter constructions, and enhanced end performance. These innovative adhesive and tape solutions empower customers to craft products with creativity, efficiency, and effectiveness.

Spanning a wide array of applications and substrates, 3M's adhesives and tapes are versatile, offering tailored solutions to optimize your assembly process.

Find your product



Your design + **Our technology** = **Complete solution**

Your parts, your design and production experts

Our science and our team of adhesive experts

One complete solution for your application

Product family finder

Step 1: **What type of assembly are you bonding?**

Step 2: **What requirements are important to you?**

Step 3: **Select your portfolio.** (click)

Online product selector
For more detailed information, please visit our online selector

Panel to frame / Stiffener to panel

A panel applied to a rigid frame (e.g. trailer panels), or a stiffening bar applied to a panel for support (e.g. traffic signs)

Is there no gap/ small gap (< 1.6 mm) between surfaces, or does the adhesive need to fill a larger gap?

Gap filling required

No gap or small gap

Will the parts separate and reattach or is the bond permanent?

Separate and reattach

Permanent bond

3M Adhesive Sealants. (Please visit our website for further info.)

3M™ Dual-Lock™

Large surface lamination

Two substrates of similar size are bonded over the whole surface (e.g., plywood or furniture cushions)

Does the bond require structural strength (overlap shear strength > 6.9N/mm²) or is lower strength acceptable?

Structural strengh

Lower strengh okay

3M™ VHB™ Tapes

3M™ Scotch-Weld™ Structural Adhesives

3M™ Thin Bonding Tapes

Small joint assembly

Very small overlap area for bonding (e.g., golf club head to shaft)

3M™ Scotch-Weld™ Structural Adhesives

Potting

Adhesive flows around a component or fills in a chamber to protect components (e.g., electronics encased in plastic)

3M™ Scotch-Weld™ Structural Adhesives

Mounting and trim

Bonding an object to a larger surface (e.g., name-plates, electronics bezels)

Should the adhesive be in a precise spot without squeezing to spread it, or can the placement be 'close enough' and spread on contact?

Precise location

Will the parts separate and reattach or is the bond permanent?

Separate and reat-tach

Permanent bond

3M™ Dual-Lock™

3M™ Thin Bonding Tapes

3M™ VHB™ Tapes

Spread on cotact

Is there no gap/ small gap (< 1.6 mm) between surfaces, or does the adhesive need to fill a larger gap?

No gap or small gap

Gap filling required

3M Adhesive Sealants (Please visit our website for further info.)

Sealing

Prevents fluids or gases from passing through the joint (e.g., roof and panel seaming)

3M™ VHB™ Tapes

Gasketing

Attaching a preformed gasket, or choosing an adhesive that acts as a gasket (e.g., air and liquid filters)

Are you attaching a preformed gasket or using the adhesive as a gasket?

Attach performed gasked

Adhesive as gasket

3M™ Scotch-Weld™ Structural Adhesives

3M™ Thin Bonding Tapes

3M™ VHB™ Tapes

Advantages of 3M tapes and adhesives over mechanical fastening

Equalizing unevenness

- Components are joined completely and without gaps
- No restoring forces, stress-free compensation of tolerances after dwell time
- Surface roughness and unevenness can be compensated by tapes and adhesives

Individual customer solutions

- Tapes can be converted into specific shapes according to your requirements

Joining material combinations

- Different thermal expansion coefficients can be compensated (e.g. plastic and metal)

Damping effect

- The closed and complete bond inhibits noise and reduces vibrations

Sealing function

- Protection against the ingress of dirt or water into the joint construction

Learn more about the benefits of adhesives and tapes bonding.

Even stress distribution

- Rather than concentrated stress across several fastener points, the substrate is evenly stressed over the area of the bond.

Weight reduction

- Significant weight advantage compared to mechanical fastening

Freedom of design

- Compared to screws or rivets, tapes and adhesives remain invisible

Quick and easy mounting

- Speeds up production processes and reduces labor costs – less pre and post processing required

Minimize the risk of corrosion

- With tapes and adhesives, no holes are required for fastening. The surface remains undamaged and protected (e.q. zinc, paint).

Elevate your bonds with proper surface preparation

Surface Preparation

Surface preparation is essential for achieving optimal bonding performance with adhesives and tapes, ensuring a clean, contaminant-free substrate that promotes strong and durable connections.

Surfaces are prepared by one of the following procedures:

1. Degrease only
2. Degrease, abrade, and solvent clean
3. Degrease and chemically pre-treat

Degrease

3M™ Industrial Cleaners and Adhesive Removers are ideal for helping dissolve and remove dirt, grease, tar, and many non-curing type adhesives.

Abrade

- Remove heavy levels of dirt or oxide from metals or paints (e.g. galvanized steel)
- Create additional surface area that can increase adhesion
- Smooth a surface to obtain more flatness, allowing improved contact area

Solvent clean

Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol (IPA) and water prior to applying 3M Tapes. There are exceptions! For special surfaces or soiling, simply ask our 3M Bonding Experts for advice.

Chemically pre-treat

But to obtain maximum strength, reproducibility and resistance to deterioration, a chemical or electrolytic pretreatment is required. Please reach out to our 3M Bonding Experts to learn more.

The use of Primer

Priming the surface is particularly necessary for adhesive and tape bonding when dealing with challenging surfaces or specific requirements, as it enhances adhesion by creating a receptive substrate, improving wetting, and promoting a secure and long-lasting bond.

1. **Surface preparation**
   See details on the left

2. **Apply primer**
   One of the methods below can be used. Please always follow the instructions on the packaging.

- Primer on a disposable towel

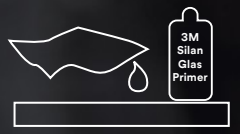
- Dauber bottle

- Foam brush

3. **Let dry before taping**

Learn more about surface preparation.

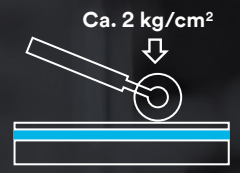
How to apply your tape



1. Surface preparation (details on previous page)

2. Application

- Place the adhesive tape on the surface to be bonded, do not stretch it
- Avoid air pockets
- Do not touch adhesive & bonding surface
- Optimum processing temperature: 15 to 25 °C

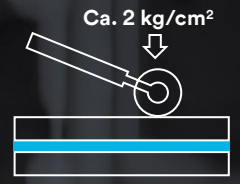


3. Proof pressure

- Press/roll on the adhesive tape well with approx. 2 kg/cm²

4. Remove liner

- Remove the line in one piece (to avoid “stop marks”)
- Do not touch the adhesive surface



5. Joining & pressing

- Apply the joining material
- Avoid air pockets
- Apply pressure with approx. 2 kg/cm²

6. Wait for final adhesive strength

- Only load after dwell time
- 50 % of the final adhesive strength after approx. 20 minutes
- Final adhesive strength at 20 °C is achieved after 72 hours
- Heat accelerates the process (e.g. final bond strength at 65 °C after one hour)

Learn more about how to apply tapes.

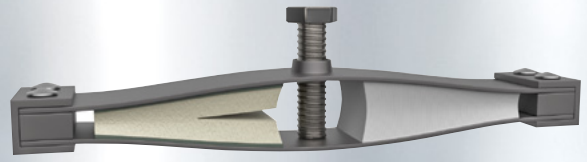
3M™ VHB™ Tapes

3M™ VHB™ Tapes are advanced adhesive tapes designed for bonding a wide range of materials with exceptional strength and durability. These tapes can provide a versatile alternative to traditional fastening methods such as screws and welds.

3M™ VHB™ Tapes offer a seamless and aesthetically pleasing solution, effectively eliminating the need for visible fasteners. Known for their ease of application, these tapes have become a trusted choice across various industries for creating robust and invisible bonds between different surfaces, including metals, plastics, glass, and composites.

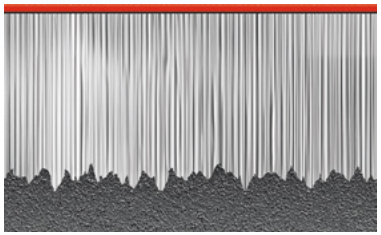
The 3M™ VHB™ Tape is viscoelastic

A key advantage of 3M™ VHB Tapes™ over foam tapes is their visco elasticity, allowing them to absorb energy and relieve stresses. Unlike foam tapes, 3M™ VHB™ Tapes can stretch up to 50 % of their thickness without tearing or delaminating.



Regular foam tape	vs.	3M™ VHB™ Tapes:
• Stress in the bond		• Stress-free bonding
• Foam carrier susceptible to cracks		• Absorbs energy and relieves stresses

While foam tapes have only a thin adhesive film on the upper or lower side, 3M™ VHB™ Tapes are entirely made of adhesive. The viscoelastic structure of the 3M™ VHB™ Tapes allows it to flow into the surface. It does not cure but remains flexible, establishing a 100 % wetting.

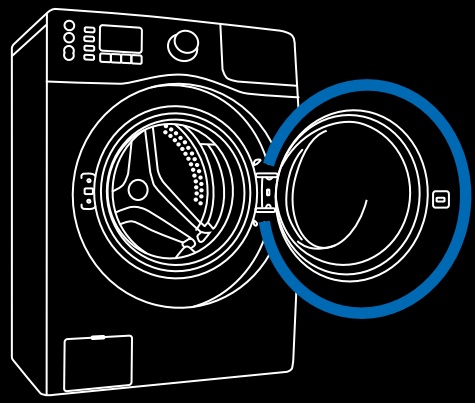


Foam tape	vs.	3M™ VHB™ Tapes
• Can be open or closed cell		• Surface roughness and tolerances are compensated by the adhesive flowing into the surface
• Can only compensate for minimal surface roughness or tolerances		

Learn more about 3M™ VHB™ Tapes

Product no	Thickness (mm)	Adhesion to steel (N/cm)	Temperature resistance (°C) Long term (days, weeks)	Temperature resistance (°C) Short term (minutes, hours)	Density (kg/m³)	Colour	Certificates
Ideal for multi-material bonding							
• For bonding high-energy materials such as metals (including steel), many plastics and soft PVC • For indoor and outdoor use • Good plasticizer resistance							
4936	0.64	30.0	90	150	720	●	UL 746C
4941	1.10	35.0	90	150	720	●	UL 746C
4956	1.55	35.0	90	150	720	●	UL 746C
4991	2.30	35.0	90	150	720	●	UL 746C
4947	1.10	35.0	90	150	720	○	UL 746C
4979	1.55	35.0	90	150	720	○	UL 746C
For powder coated surfaces							
• For bonding low-energy materials such as powder coatings and high-energy materials such as metals (including steel) and many plastics • Offers optimum adaptability to the surfaces to be bonded • For indoor and outdoor use							
5909	0.30	21.0	90	120	750	○	
5925	0.64	35.0	120	150	590	○	UL 746C
5952	1.10	35.0	120	150	590	○	UL 746C
5962	1.55	35.0	120	150	640	○	UL 746C
For high temperatures and before powder coating							
• For applications under high operating temperatures, such as before processing in a powder coating line • For high- and medium-energy materials such as metals (e.g. steel) and various plastics (e.g. PA, acrylic glass/ PMMA, ABS) • For interior and exterior use							
RP+040GP/F	0.40	31.0	121	230	800	●	
GPH-060GF	0.60	25.0	150	230	710	●	
RP+080GP/F	0.80	45.0	121	230	750	●	
GPH-110GF	1.10	37.0	150	230	710	●	
GPH-160GF	1.60	34.0	150	230	710	●	
RP+230GP/F	2.30	57.0	121	230	705	●	
For critical plastics and composite materials							
• For bonding difficult-to-bond LSE substrates without primer, such as PP, TPO, GRP, CFRP and polyester coatings • Adhesion at low temperatures from 0 °C (frost-free) • For indoor and outdoor use							
LSE-060WF	0.60	30.0	100	150	715	⬤	
LSE-110WF	1.10	44.0	100	150	715	⬤	
LSE-160WF	1.60	54.0	100	150	715	⬤	
For transparent materials							
• For joining transparent materials such as glass and many plastics • For indoor and outdoor use							
4905	0.5	21.0	90	150	960	◌	UL 746C
4910	1.0	26.0	90	150	960	◌	UL 746C
4915	1.5	26.0	90	150	960	◌	
4918	2.0	26.0	90	150	960	◌	
3M™ VHB™ Extrudable Tape							
The 3M™ On Demand Bonding System featuring 3M™ VHB™ Extrudable Tape: • Simple, automated solution • Easily integrates into your assembly line							
Extrudable Tape GP	variable	86.0	90	100	970	○	UL746C
Low VOC							
• 85% reduction in VOCs compared to common acrylic foam tapes • 80% reduction in fog compared to common acrylic foam tapes							
LVO-060BF	0.6	38	93	121	540	○	FDA, VDA278
LVO-110BF	1.1	38	93	121	540	○	FDA, VDA278
LVO-160BF	1.6	38	93	121	540	○	FDA, VDA278

○ Black ● Grey ◌ Transparent ⬤ White



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Need a specific shape or size? Dive into details.

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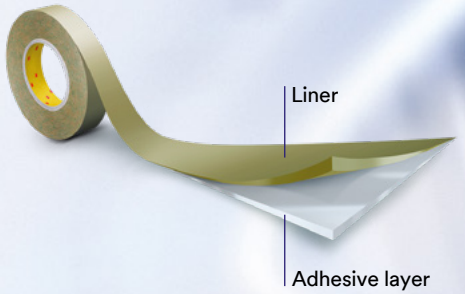
3M™ Thin Bonding Tapes

Discover the advantages of 3M's thin bonding solutions

Crafted with precision, these products boast a thickness of 0.25 mm or less, offering a sleek and streamlined solution for various applications. Ideal for finished products requiring a reduced overall profile.

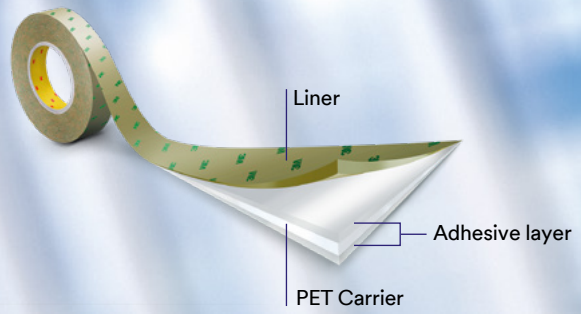
Experience exceptional conformability

Our thin bonding tapes are designed for versatility, featuring exceptional conformability that makes them perfect for intricate surface geometries. Whether you're working with complex shapes or demanding surfaces, 3M's thin bonding tapes deliver reliable adhesion and adaptability.



3M™ Adhesive Transfer Tapes

- **Thickness: 25 – 250 µm**
- **Without (intermediate) carrier**
- High flexibility and conformability
- Compensates for surface roughness very effectively
- Higher temperature resistance than doublecoated tapes
- Automated processing recommended for large areas
- More difficult to handle and to die-cut (edge picking) than double coated tapes (thread reinforced adhesive transfer tapes available for easier handling)



3M™ Double Coated Tapes

- **Thickness: 25 – 250 µm**
- **With (intermediate) carrier**
- Lower flexibility and conformability than adhesive transfer tape
- Compensates for surface roughness less effectively than adhesive transfer tape
- Carrier limits temperature resistance
- Increased internal stability thanks to carrier
- Easier to handle and to die-cut
- Better dispensability
- Different adhesives on both sides possible
- Levelwound rolls possible

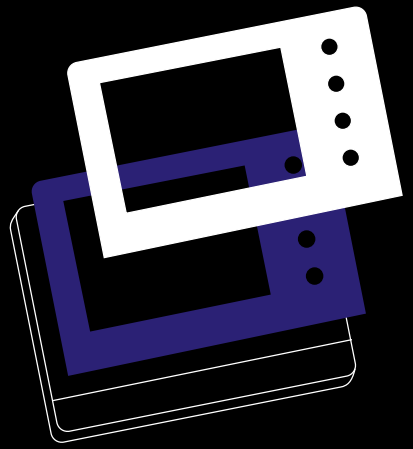
Learn more about 3M™ Thin Bonding Tapes

3M™ Thin Bonding Tapes

Large surface lamination | Mounting and trim | Gasketing

Product no	Thickness (mm)	Temperature resistance (°C) short term	Weather resistance	Double coated tape / Adhesive transfer tape	Liner material	Colour	Certificates
General purpose solution							
Ideal general purpose industrial thin bond tape for a wide range of applications and substrates such as: • Stainless Steel, HDPE, ABS, Acrylic PP, Polycarbonate, Aluminium,Glass	GPT-020	0.200	190	+++	Double coated tape with PP film	Polycoated kraft	◌	
	GPT-020F	0.200	190	+++	Double coated tape with PP film	Filmic liner	◌	
Metals / Easy-to-stick surfaces							
For Metal and High Surface Energy Substrates such as: • Aluminium, Powder-coated metals: Copper, Stainless steel and Zinc, Composites, Carbon Fibre, Ceramic, Acrylic, Fibreglass, Plastics: Polycarbonate, Polyester, Polyimide, Polystyrene and Rigid Vinyl	467MP	0.058	200	++	Adhesive transfer tape	Polycoated kraft	◌	UL 746C UL 969
	467MPF	0.058	200	++	Adhesive transfer tape	PET film	◌	UL 746C UL 969
	7952MP	0.058	200	++	Adhesive transfer tape	Polycoated kraft	◌	UL 746C UL 969
	468MP	0.132	200	++	Adhesive transfer tape	Polycoated kraft	◌	UL 746C UL 969
	7955MP	0.132	200	++	Adhesive transfer tape	Polycoated kraft	◌	UL 746C UL 969
	7956MP	0.167	150	+++	Double coated tape	Polycoated kraft	◌	UL 746C UL 969
Plastics / Hard-to-stick surfaces							
Designed specifically to bond low surface energy substrates securely and reliably with high initial tack and high shear strength such as: • ABS Plastic, Nylon Coated Aluminium, Coated Paper, EPDM Rubber, Foam, Graphite, Metal Mesh, Painted Surfaces, PET Film, Coated Polycarbonate, Polypropylene, Powder-Coated Surfaces, Printed Metal, Rubber Polyurethane, SIS Rubber and Wood	9471LE	0.058	150	++	Adhesive transfer tape / No carrier	Polycoated kraft	◌	UL 746C UL 969
	9472LE	0.132	150	++	Adhesive transfer tape / No carrier	Polycoated kraft	◌	UL 696
	93010LE	0.100	150	+++	Double coated tape with PET film	Polycoated kraft	◌	UL 746C
	93015LE	0.150	150	+++	Double coated tape with PET film	Polycoated kraft	◌	UL 746C
	93020LE	0.200	150	+++	Double coated tape with PET film	Polycoated kraft	◌	UL 746C
	9495LE	0.170	150	++	Double coated tape with PET film	Polycoated kraft	●	UL 696
High temperatures / Harsh environments							
Delivers in high temperatures and other challenging environments: • Short-term temperature tolerance up to 260 °C • Operating temperature tolerance of up to 150 °C • Durable adhesive is chemical, UV and solvent resistant	F9460PC	0.058	260	+++	Adhesive transfer tape	Polycoated kraft	◌	UL 746C
	F9469PC	0.132	260	+++	Adhesive transfer tape	Polycoated kraft	◌	UL 746C
	F9473PC	0.269	260	+++	Adhesive transfer tape	Polycoated kraft	◌	UL 746C
Print your tape							
3M™ Printable UV Curing Pressure Sensitive Adhesive SP7202. This unique UV curable liquid can be printed with robot dispensing in the required shape and after UV curing it's a Pressure Sensitive Adhesive (PSA) with the performance of an adhesive transfer tape.	SP7202	Variable	n/a	n/a	Pressure sensitive adhesive	No liner	◌	

◌ Transparent ● White



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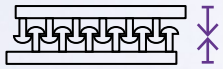
Looking for a reclosable solution?

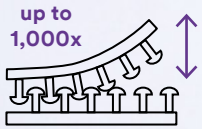
3M™ Dual Lock™ Reclosable Fasteners

When you need a strong, reliable, yet removable closure or attachment, 3M™ Dual Lock™ Reclosable Fasteners are the simple alternative to traditional fastening methods such as screws, nuts or bolts. A wide range of products are available to meet your specific requirements, including temperature, moisture, UV and flame resistance. Mix and match products to achieve the required holding strength.



Design flexibility

- Lightweight and low profile
- Fastener is hidden beneath the surface and does not interfere with the integrity of the design
- No holes or traditional fastener marks



Reliable performance

- Strong, interlocking mushroom-shaped heads connect with an audible “snap”
- Peel apart to open
- Durable — up to 1,000 openings and closings before losing 50 % of original tensile strength
- Interlocking mushroom-shaped heads have 5X the tensile strength of hook-and-loop products

Noise reduction through vibration damping

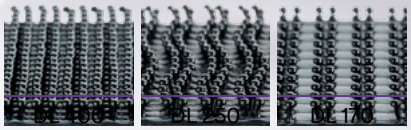
- The viscoelastic properties of 3M™ Acrylic Foam Tape in combination with the polyolefin mushroom heads of 3M™ Dual Lock™ dampens vibrations

Quick and easy to Install

- Adhesive sticks on contact to a variety of materials without special tools
- No drilling, screwing, sewing
- Non-adhesive product also available

Stem density combinations	
Strongest	DL 250 : DL 400
Stronger	DL 250 : DL 250 or DL 170 : DL 400
Strong	DL 170 : DL 250
Not recom-mended	DL 170 : DL 170 or DL 400 : DL400

Interchangeable strength combinations



62 Stems/ cm² | 40 Stems/ cm² | 26 Stems/ cm²

Customize for your application

- Mix and match stem densities for the ideal closure strength
- Choose from a variety of widths and adhesive options
- Application and maintenance ease

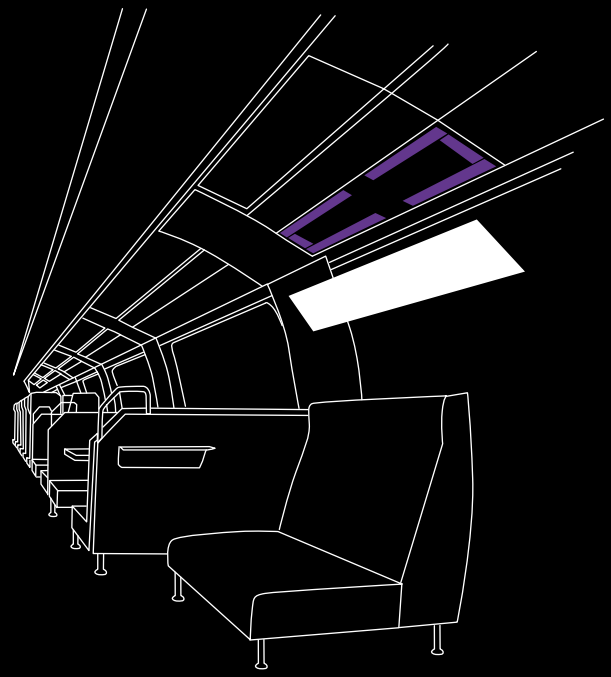
3M™ Dual Lock™

Product no	Engaged thickness (mm)	Adhesive type	Stem density (per cm²)	Holding power	Temperature resistance (°C)	Closure cycle life	Indoor/ outdoor use	Colour
For plastic materials								
Bonds to a variety of substrates including: • Polypropylene • Polyethylene	SJ3540	5.7	Rubber	40	9	49	1,000 x	Indoor	○
	SJ3541	5.7	Rubber	62	9	49	1,000 x	Indoor	○
	SJ3542	5.7	Rubber	26	9	49	1,000 x	Indoor	○
Ideal for multi-material joints								
Bonds to a variety of substrates including: • Metals • Glass and • Plastics (such as acrylics, polycarbonate and ABS)	SJ3550CF	5.7	Clear acrylic	40	10	93	1,000 x	Indoor & outdoor	○
	SJ3551CF	5.7	Clear acrylic	62	10	93	1,000 x	Indoor & outdoor	○
Try mating different combinations of Type 170, Type 250 or Type 400 to achieve the desired strength profile	SJ3552CF	5.7	Clear acrylic	26	10	93	1,000 x	Indoor & outdoor	○
For transparent materials								
A clear version for when a translucent appearance is needed on: • Metals • Glass • Plastics (such as acrylics, polycarbonate and ABS)	SJ3560	5.7	Clear acrylic	40	10	104	1,000 x	Indoor & outdoor	◌
For powder-coated surfaces								
For joining: Low-energy materials such as • Powder coatings and many plastics	SJ3870	6.1	Modified acrylic	40	10	82	1,000 x	Indoor & outdoor	○
High-energy materials such as • Metals (including steel) A combo of low & high-energy materials	SJ3871	6.1	Modified acrylic	62	10	82	1,000 x	Indoor & outdoor	○
Thin bondlines								
Half the thickness and lower weight limit of standard 3M™ Dual Lock™ Reclosable Fasteners. Low surface energy adhesive bonds to: • Metals • Powder-coated paints • Plastics (broad range)	SJ4570	2.31	Modified acrylic	109	7	70	150 x	Indoor & outdoor	◌
Hook & loop options								
Half the thickness and lower weight limit of standard 3M™ Dual Lock™ Reclosable Fasteners. Low surface energy adhesive bonds to: • Metals • Powder-coated paints • Plastics (broad range)	SJ3526 (Hook) & SJ3527 (Loop)	3.6	Rubber		4	49	5,000 x	Indoor	○●
	SJ3571 (Hook) & SJ3572 (Loop)	3.6	Acrylic		4	93	5,000 x	Indoor & outdoor	○●

○ Black ◌ Transparent ● White

Panel to frame / Stiffener to panel

Mounting and trim



Free Samples
Contact us to request a free sample.

Converted parts
Need a specific shape or size? Dive into details.

Online product selector
For more detailed information, please visit our online selector

3M™ Scotch-Weld™ Structural Adhesives

These adhesives are formulated to provide high strength, durability, and long-term reliability in load-bearing applications.

- Structural adhesives have the highest load bearing capability (compared to other types of adhesives)
- Excellent environmental and chemical resistance
- Generally formulated to be 100 % solids (no solvent emissions to deal with)
- Come in a range of cure times and properties.
- Cure in an irreversible process which helps provide excellent temperature and solvent resistance.
- They do not need access to air to dry; nor moisture (like one-part silicone and polyurethane sealants); and thus, have unlimited depth of cure.

Stronger Bonds

- Toughened adhesives absorb shock for durable bonds

Flexible Bonds

- Absorb vibration and CTE mismatch (Coefficient of thermal expansion)

Enhance Productivity

- Variety of cure rates to match your process needs
- Build faster with minimal surface prep
- Withstands high process temperatures

Accurate and Easy

- Control dispensing with 3M™ EPX™ exact proportioning and mixing applicators
- Match your processing needs with a range of viscosities and flow rates
- Manage large applications with automated dispensing equipment

Product no	Approx. open time* at 24 °C (min)	Approx. time to handling strength at 24 °C (min)	Approx. viscosity at 24 °C (mPas)	Floating roller peel at 24 °C (N/cm)	Overlap shear: MPa -55 °C	24 °C	82°C	Mix ratio (Volume) B:A	Colour	Certificates
Metal bonding										
• Bonds to bare, slightly oily metals • Pre-powdercoat bonding of active metals • High-strength • Durable bonding of metals, plastics, and composites • Excellent impact resistance • Easy dispensing	DP8405NS	5	15	70,000	89	18	28	6	10:1	●	
	DP8407NS	7	24	20,000	89	23	31	10	10:1	●	EN 45545 UL
	DP8410NS	10	25	70,000	89	25	28	6	10:1	●	
	DP8425NS	25	50	70,000	89	26	26	6	10:1	●	EN 45545
Plastic bonding										
• Bonds to low surface energy plastics • Low Odour • Medium viscosity • High-strength bonding for plastics, and other challenging surfaces	DP8005	3	180	25,000	n/a	6	14	3	10:1	○	
	DP8005	3	180	25,000	n/a	5	15	3	10:1	●	
	DP8010	10	60	20,000	n/a	19	19	3	10:1	●	
Multi-material bonding										
• Bond most composites and dissimilar substrates • Non-sag formulation • Superior strength and versatility for even the most challenging surfaces	DP6310NS	9	45	Non-sag paste	36	24	25	6	1:1	●	EN 45545
	DP6330NS	30	120	Non-sag paste	36	25	25	7	1:1	●	EN 45545
High-temperature and high-humidity										
• Ideal for high temperature and high humidity applications: structural strength at 85 °C	DP8910NS	10	16	45,000	18	15	22	11	10:1	○	UL
The flexible										
• High elongation up to 200 % • Excellent bonding strength, durability, and flexibility • Limits bond line read-through • Non-flammable classification • Low odor formulation	DP8610NS	10	18	130,000	100	24	7	2	10:1	○	EN 45545 UL
	DP8625NS	23	28	130,000	100	24	7	2	10:1	○	
The tough										
• Excellent environmental resistance • Toughened epoxy for high impact strength • Excellent fatigue performance • For heavy-duty industrial applications	DP420	20	120	30,000	125	31	31	9	2:1	●	UL
	DP420NS	20	120	180,000	107	31	31	9	2:1	○	UL
	7240 FR	45	360	120,000	92	18	27	12	2:1	○	EN 45545
	DP460	60	120	30,000	142	31	31	5	2:1	●	UL
	DP490	90	240	90,000	60	25	31	14	2:1	○	EN 45545
The fast										
• Fast rate of strength build • Low temperature performance • Excellent impact and peel strength • Excellent bonding strength, durability, and impact resistance, making it ideal for demanding applications where reliability is crucial	DP8705NS	5	6	80,000	60	30 (at -40 °C)	16	4	10:1	○	
	DP8710NS	10	13	80,000	60	30 (at -40 °C)	16	4	10:1	○	UL
The resistant										
• Excellent resistance to heat, water, and chemicals • Low temperature performance: to -40 °C • Non-corrosive to active metals • Non-flammable classification • Low odour formulation	DP8725NS	23	25	80,000	60	30 (at -40 °C)	16	4	10:1	○	

○ Black ● Green ◌ Transparent ● Off-White

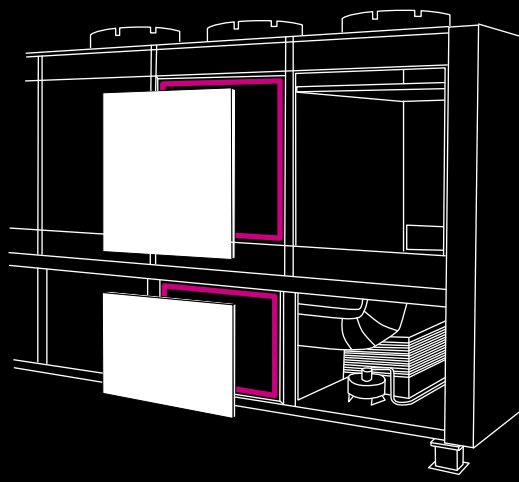
Large surface lamination

Small joint assembly

Potting

Mounting and trim

Gasketing



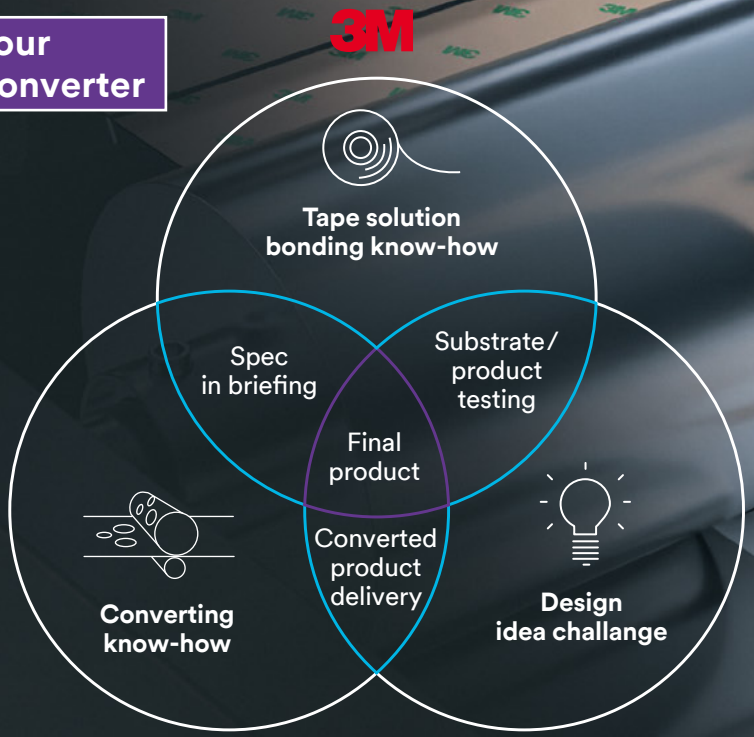
Free Samples
Contact us to request a free sample.

Online product selector
For more detailed information, please visit our online selector

Convert your 3M parts | Enhance your process

Choosing tapes in converted shapes offers a range of benefits, including precision, cost savings, enhanced productivity, and improved overall product performance. It's a strategic choice for businesses aiming to optimize their processes and achieve high-quality results.

Find your Preferred Converter



Benefits of converted parts.

1. **Precision & customization:**
   Tailored solutions with high precision and versatility.
2. **Efficiency & consistency:**
   Streamlined assembly, reducing labor and ensuring consistent results.
3. **Waste reduction & cost-effectiveness:**
   Minimized material waste, cost savings, and eco-friendly production.
4. **Enhanced performance & ease of application:**
   Optimal adhesive contact for improved performance and user-friendly installation.
5. **Versatility & quality assurance:**
   Applicable across industries, meeting diverse requirements with quality control measures.

Dispensing solutions

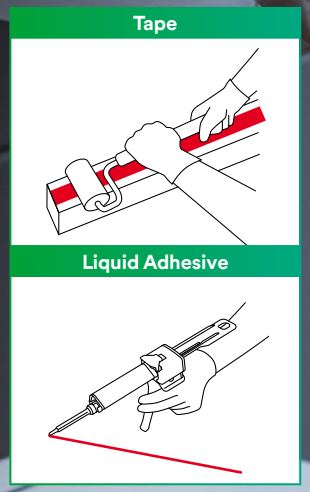
There are many benefits to automating, including optimizing the use of labor, decreasing costs and increasing production, worker safety, and quality.

Visit us online: 360° Tour through the 3M Bonding Process Center.

Book your visit today: Schedule your virtual or on-site visit to the 3M Bonding Process Center

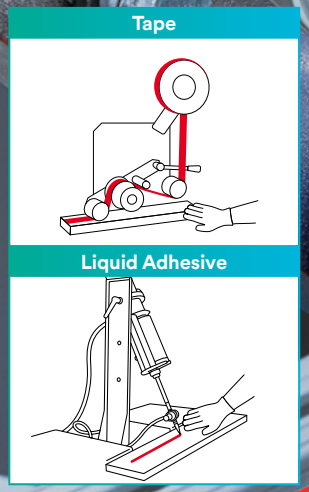
Bonding automation handbook: Handbook to give you a basic understanding of automating your tape and liquid adhesive processes.

Learn more



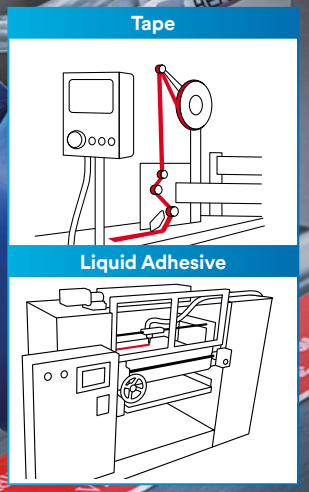
Basic Tools

Simple basic tools to improve the application process, without automation.



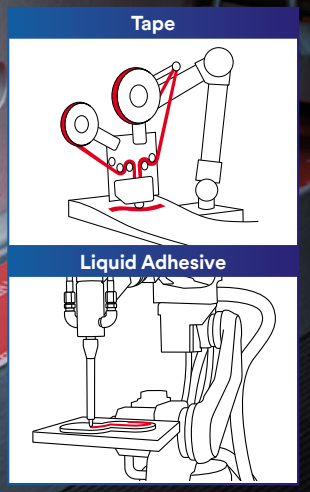
Process Assist

Simple mechanical or electrical tools to increase productivity of manual application.



Fixed Automation

Mostly automated operation designed to perform one specific assembly process with the goal of improving accuracy, speed, or labor



Flexible Automation

Mostly automated operation designed to perform more than one assembly process or, to be re-purposed later. Often incorporates robotics.

Benefits of automating liquid adhesive or tape applications.

Assembly

- Increase quality
- Improve aestetics
- Increase consistency and accuracy of placement

Process

- Improve traceability
- Decrease operator fatigue
- Difficult to find labor/ Labor shortage
- Increase safety
- Decrease takt time
- Increase throughput
- Complexity of operation

Cost

- Improve operator efficiency
- Reduce high-cost
- labor rate
- Reduce work in process
- inventory

Test your bonds | Get support from the 3M lab team

Our state-of-the-art facilities offer a myriad of tests to ensure the reliability and strength of tapes and adhesives. From shear and peel strength assessments to environmental durability testing, we tailor our analyses to meet your specific needs. Trust 3M to deliver meticulous testing, providing you with the assurance that your bonds will stand the test of time. Explore our comprehensive testing services and elevate the quality and reliability of your projects.

Learn more

Testing capabilities

Tensile, adhesion & cohesion strength

- Tensile & elongation
- Dynamic shear
- Static shear
- Adhesion (Peel)

Climatic & environmental exposure

- Accelerated weathering
- Climate chamber
- Saltspray
- Weathering
- Deep freezer

Mechanical strain

- Abrasion resistance
- Shear resistance
- Surface test
- Surface cutting

Chemical resistance

- Automotive liquids, wax, diesel, fuel, oil, water etc.
- Flammability

Impact resistance

- Pendulum

Miscellaneous

- Thickness
- Scale
- Surface energy
- Press

Simulation-driven design using FEA

Learn more

What is finite element analysis (FEA)?

FEA is a virtual engineering tool used to predict how structures behave under different conditions.

How does it work?

Breaks down complex systems into smaller elements for detailed analysis. Predicts quantities like stresses and strains.

Material data cards in FEA

Utilizes material data cards representing the material behavior in the simulation.

Key benefits

Enables rapid and cost-effective exploration of design iterations. Identifies weaknesses and ensures designs meet safety and performance standards.

Optimizing design

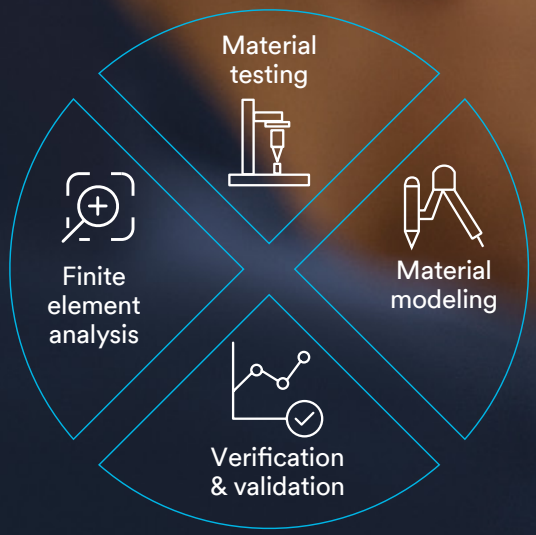
Valuable during the design phase to refine and enhance product reliability.

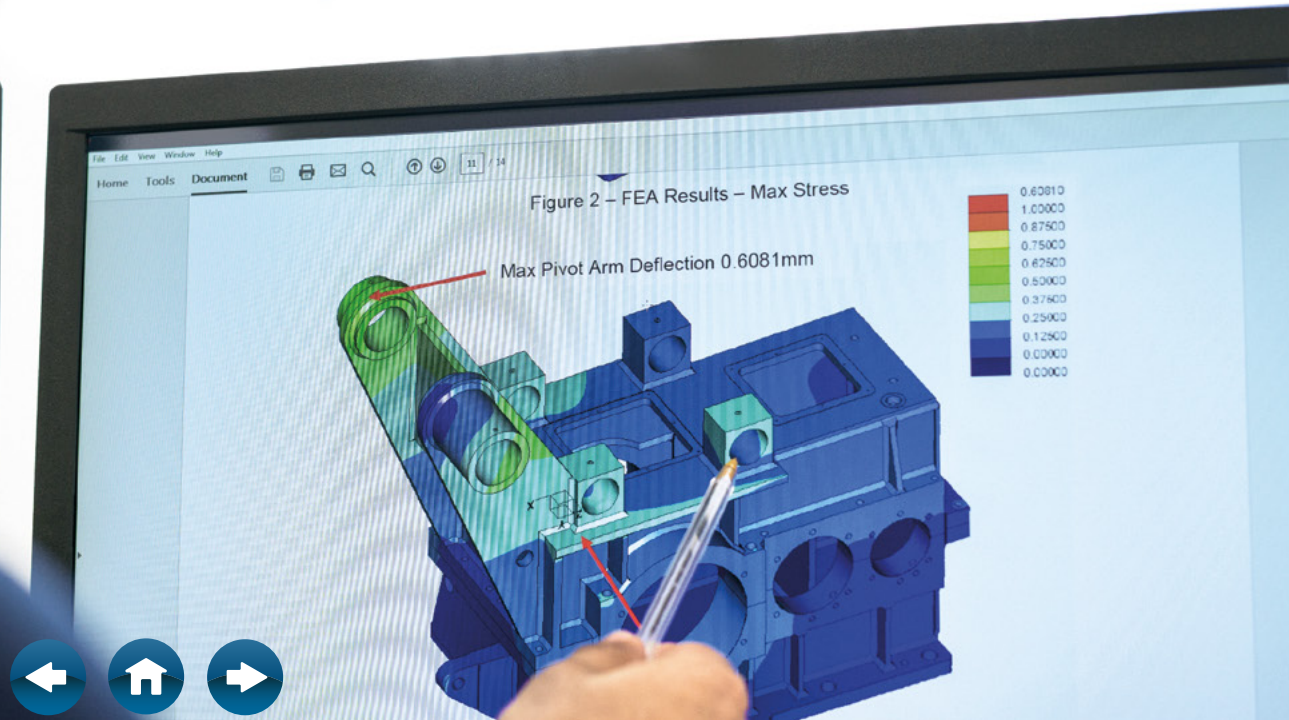
Cost and time savings

Reduces the amount of physical prototypes, saving both time and resources.

Why FEA matters

Informs decision-making, leading to more efficient and reliable designs.





How to start your Project.

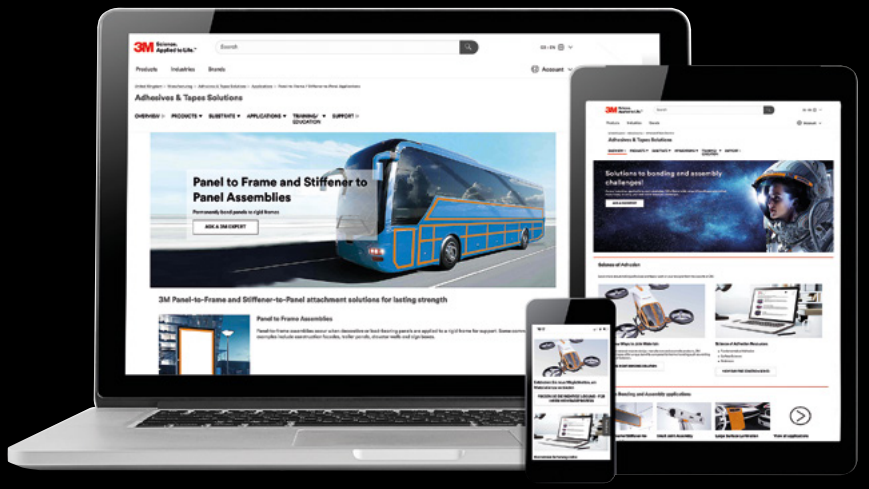
Scan or click the QR code and complete the form. Our experts will contact you shortly and help you to get the solution your are looking for.

Contact us

Visit us online.

Visit us online and learn more about bonding solutions.

Website



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- Products
- Technical testing
- Educational videos
- Industry examples

Webinar