

3M Science.
Applied to Life.™

3M™ VHB™ Tape Max

Remaking the World of Making Things

March 2025



3M™ VHB™ Tape opens a world of possibilities



Capture Extreme Footage

- Weather-resistant
- Durable
- Seals out water and dirt



Make Smart Devices Sleeker

- Bonds multiple materials
- Can be die-cut for precision
- Shock-resistant



Design Beautifully

- Cleaner aesthetics
- Enables flexibility
- Strong bonds



Bond Multiple Materials

- Dampens vibration
- Quick to assemble
- Creates a one-step seal



Eliminate Rivets

- Strong and durable
- Lightweight
- Fast and easy to assemble



Streamline Manufacturing

- Eliminates spot welds
- Temperature-resistant
- Increases throughput

3M™ VHB™ Tape Max Series is a breakthrough bonding system delivering high strength for demanding applications



- Customer demand for higher strength 3M™ VHB™ Tapes for critical applications
- Increasing desire to eliminate reliance on mechanical fasteners for lightweighting, vibration/noise dampening, moisture intrusion, and to simplify production



- Liquid adhesives such as PURs and polyurethane adhesive sealants are cumbersome and do not provide immediate handling strength
- Need for increased design flexibility to accommodate applications which require high strength with less material
- Growing environmental health and sustainability trends to use more EHS friendly materials

3M™ VHB™ Tape Max is the strongest acrylic foam tape in the VHB™ Tape portfolio



Superior Bond Strength

This system provides bond strength up to 470 psi (3.24 MPa) in overlap shear, significantly higher than standard VHB™ tapes. It is ideal for applications requiring extreme strength and can replace mechanical fasteners.



Advanced Design Capabilities – *Do more with less!*

The superior adhesive properties offer greater design flexibility and may reduce material usage compared to other acrylic foam tapes. Use narrower bond lines and less total bond area while achieving similar strength performance.



Simplified Solution With Ease and Cleanliness of Tape

Immediate handling strength allows for faster assembly and processing times compared to liquid adhesives. The high strength of 3M™ VHB™ Tape Max may enable it to replace liquid adhesives like polyurethane reactive adhesives (PURs) and adhesive sealants.



Complete Bonding System

The 3M™ VHB™ Tape Max Promoter is specifically designed for use with the 3M™ VHB™ Tape Max Series to achieve high bond strength on a variety of substrates.



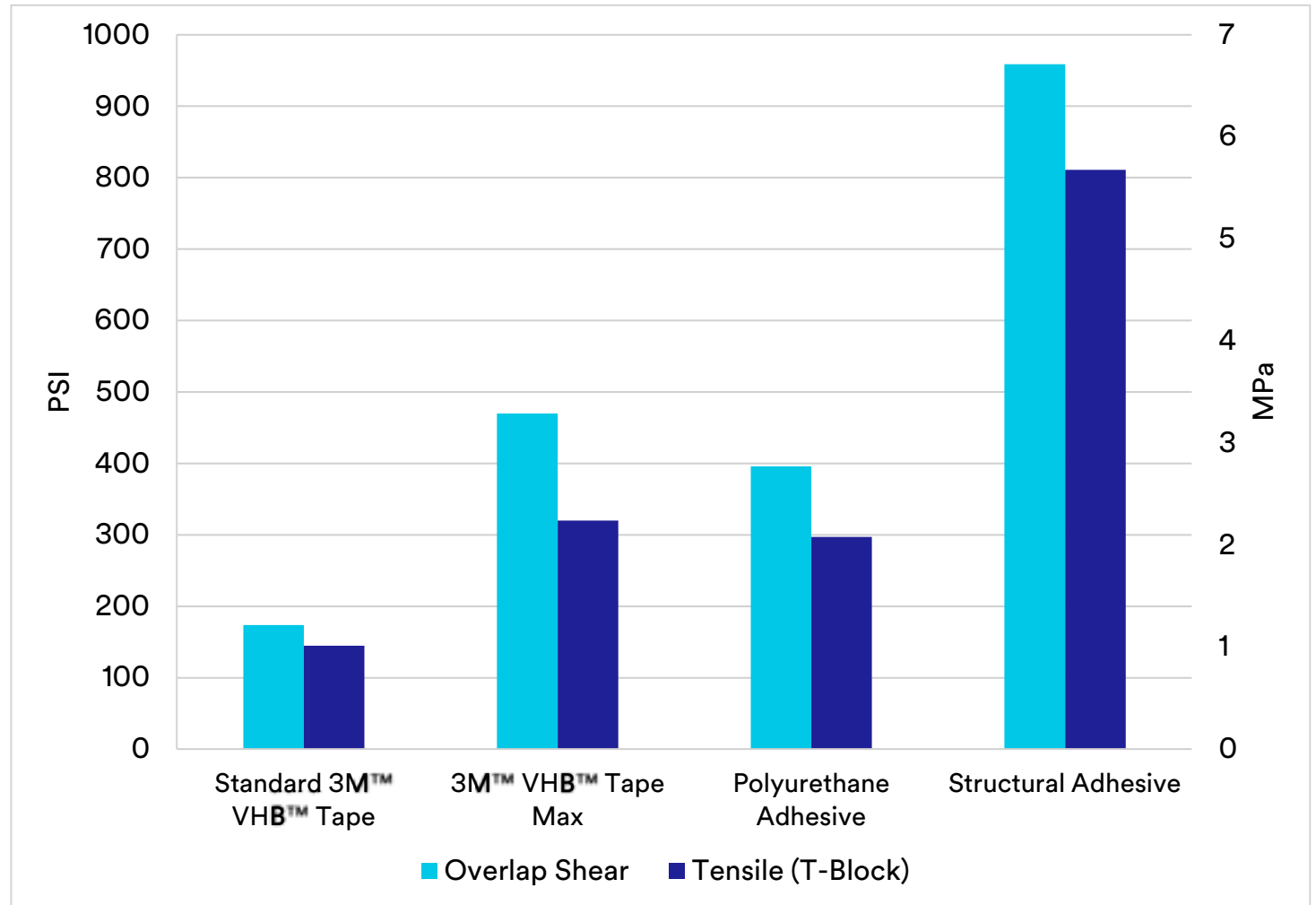
Bonding System

Designed to perform in the most demanding applications

All the benefits of VHB™ Tape... plus the ability to achieve superior bond strength



- At least 2 times higher strength compared to standard VHB™ Tapes
- Bond strength up to 470psi (3.24MPa) in overlap shear
- Good strength performance compared to polyurethane adhesives
- Superior holding power for static loads
- Great fatigue resistance
- Maintains viscoelasticity and stress relaxation properties of VHB™ Tapes



3M™ VHB™ Tape Max offers greater design flexibility over alternative options



Engineers often face limitations with mechanical fasteners, messy adhesives, and other tapes. The new 3M™ VHB™ Tape Max Series addresses these limitations through advanced adhesive technology that takes acrylic foam tape performance to the next level.

To users of...



Mechanical Fasteners

- Eliminates drilling, screwing, welding, and clean-up
- Creates a permanent seal against water, moisture, and more
- Allows use of thinner, lighter weight materials
- Bonds dissimilar materials
- Uniform stress distribution



Liquid Adhesives

- Clean handling, no ooze-out or mess
- Bonds on contact to provide immediate handling strength
- Less waste, no purging that is common for liquid adhesives
- No applicators or equipment necessary, lowering costs
- Maintains bond line consistency and provides gap filling up to 2.3mm



Other Acrylic Foam Tapes

- At least 2 times stronger than standard acrylic foam tapes
- Lower material costs may be associated with less tape usage
- Improves design flexibility by enabling narrower bond lines and less total bond area while achieving similar strength performance

Applications with a need for high strength and long-term durability

Max Applications

- Box truck / dry van side panels, roof bows, brackets
- OEM equipment cabins and brackets
- Sport utility panels
- Appliance panels, rails, shelving, and trim
- Automotive display
- Bus interior or exterior side panels, trim attachment
- Building components stiffeners and brackets
- Utility truck bodies
- HVAC
- & more!

Box Truck / Dry Van



OEM Equipment



HVAC / Gen Ind.



Sport Utility



Appliance

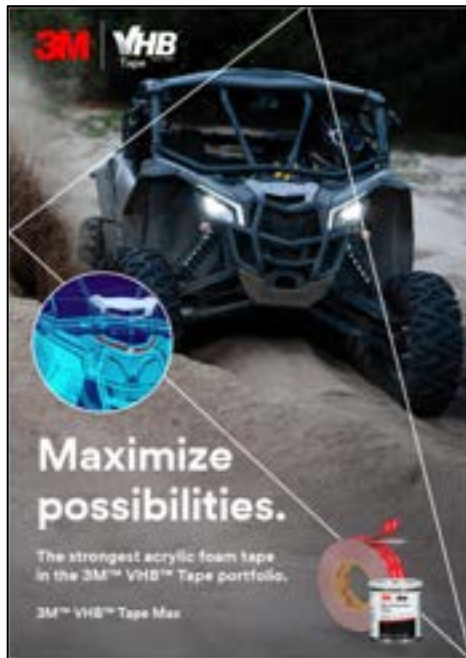


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3M™ VHB™ Tape Max Resources

Product Materials Specially engineered



- Visit our website 3m.com/vhb
- View the 3M™ VHB™ Tape Max Series brochure and sales guide

Sampling Demonstrated performance



- Talk to your local sales representative to order a sample

Data & Testing Backed by rigorous testing



- Download the [Technical Data Sheet](#) (TDS), [Regulatory Data Sheet](#) (RDS)
- Go to [3M.com/FEA](https://3m.com/FEA) to request a material data card

3M™ VHB™ Tape Max Series Summary

Max-060GF, Max-110GF, Max-160GF, Max-230GF, Max Promoter ½ Pint, Quart, Gallon

Industries

- OEM Equipment
- Box Trucks / Dry Vans
- Appliance
- Building Components
- Bus
- Specialty Vehicle
- HVAC
- General Industrial
- Auto Display

Applications

- Interior & Exterior:
- Panel to Frame
 - Stiffener Attachments
 - Bracket Attachments
 - Rub Rails and Trim
 - Dissimilar Material Bonding
 - General Static Load Applications

Substrates

- High surface energy (HSE) - such as stainless steel
- Medium surface energy (MSE) plastics and coatings - such as ABS

Product Design

- 0.6mm, 1.1mm, 1.6mm, and 2.3 caliper thicknesses
- Gray foam core
- Clear adhesion promoter – ½ pint, quart, and gallon containers

Key Features

- High strength bonding system up to 470psi (3.24 MPa) OLS
- Design flexibility – do more with less!
- Immediate handling strength
- Maintains viscoelasticity and stress relaxation properties



3M™ VHB™ Tape Max Series

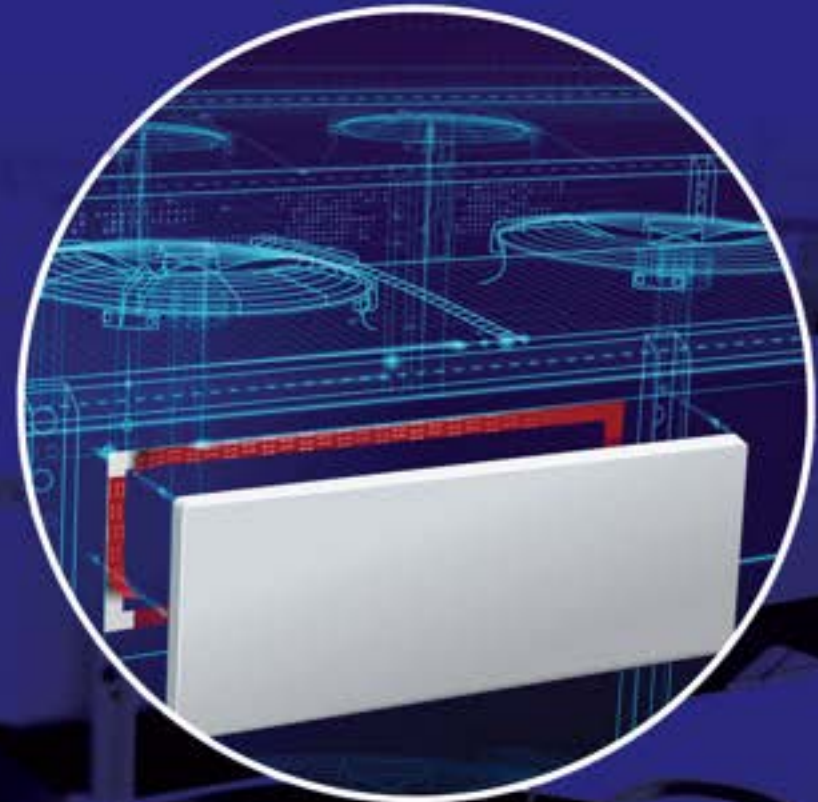
The 3M™ VHB™ Tape Max and 3M™ VHB™ Max Promoter are the perfect tools for your most demanding applications.



Product	Caliper
Max-060GF	0.6 mm (0.025")
Max-110GF	1.1 mm (0.045")
Max-160GF	1.6 mm (0.062")
Max-230GF	2.3 mm (0.090")

Product	Container
Max Promoter	½ Pint (236 mL)
Max Promoter	Quart (946 mL)
Max Promoter	Gallon (3.78 L)

No GHS08 health hazard classification



Questions?

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