

3M[™] VHB[™] Tape LSE Series

Rethink what's possible.

Do more with plastics and other low surface energy materials.

3M[™] VHB[™] Tape LSE Series

Push boundaries. Unlock potential.

Design for our ever-changing world.

ALAT

Plastics, composites and other low surface energy (LSE) materials are integral to the future of manufacturing. Unfortunately, bonding these materials with adhesives can be difficult and often requires the use of a primer or adhesion promoter.

Be free to choose the material that's right for your design. The 3M[™] VHB[™] Tape LSE Series is a double-sided acrylic foam tape developed specifically for LSE substrates such as polypropylene (PP), thermoplastic elastomers (TPE) and thermoplastic olefins (TPO), to help create a long-lasting, high-strength bond without the use of a primer or promoter.

Versatile plastic application

- Resilient
- Conformable
- Durable



plastic products

Designed for plastics. Designed to work.

Choose the latest in adhesive technology.

Low surface energy substrates are difficult to attach or bond to. Turn your most cutting-edge design into reality. Our 3M[™] VHB[™] Tape LSE Series performs differently, making long-lasting adhesion possible with virtually any material and turning your most cutting-edge design into reality.

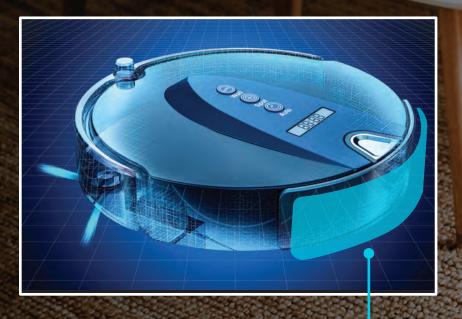
Features and benefits of 3M[™] VHB[™] Tape LSE Series

- Very high bond strength in a lightweight tape
- No primer required for plastic-to-plastic applications
- Long-term durability outdoors
- Greater design flexibility
- Manufacturing high-precision convertible
- Lower manufacturing costs
- Reduced production time



Rethink how you design.

Maintain cutting integrity from the sketch to the consumer, eliminating distracting visible fasteners like screws and bolts. Improve aesthetics and push the limits on shapes, LSE material combinations and textures to help create breakthrough designs faster and with more durability.



Streamline design aesthetic to bring your vision to life.

Rethink what you bond.

In addition to many LSE materials, the 3M[™] VHB[™] Tape LSE Series can join a variety of many high and medium surface energy materials, including aluminum, steel, glass, plastics and painted surfaces. The 3M[™] VHB[™] Tape LSE Series provides resilient bonding solutions in just about anything you can think up.

- LSE substrates: polypropylene (PP), thermoplastic elastomers (TPE), thermoplastic olefins (TPO)
- MSE substrates: polycarbonate, high impact polystyrenes (HIPS), acrylic, nylons, ABS
- Composites: glass-reinforced plastics (GRP)/fibreglass, carbon fibre
- Polyester paint

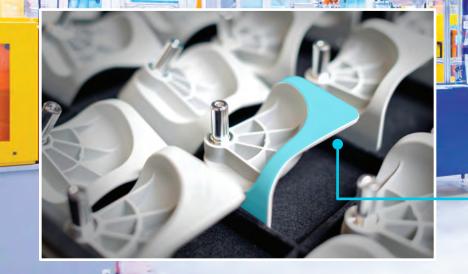




Rethink how you build.

Increase the flexibility of the manufacturing line. Eliminate complicated screw fasteners. Help save welding costs — no post-weld finishing/tooling steps. Skip unnecessary primers. Create a different kind of bond that actually helps to get stronger over time.

Plus, the 3M[™] VHB[™] Tape LSE Series can be used across a variety of application methods, from manual application to semi-automatic or robotic assembly.



Increase throughput and maximize speed to market.

Rethink your environment.

Don't be confined by manufacturing or end-use conditions. 3M[™] VHB[™] Tape LSE Series was made to live outdoors. Resists hot, cold and cycling temperature, UV light, moisture and solvents. Seals against environmental conditions. It enables low-temperature bonding with high initial tack at low temperatures on frost-free surfaces down to 0°C.

Ideal for low-temp bonding in

- Unheated manufacturing facilities
- Outdoor power equipment
- Sports equipment



Enable long-term bonding in a wide range of temperatures.

Rethink how you compete.

CATS

Disrupt the status quo. The industry's top talent is using plastics and smooth surfaces to reinvent their designs and rise above the competition in assembly, performance and appearance. Now you can, too.



Create attention-grabbing designs that help you stand out.

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You'd be surprised what it can do.

Considering adhesives, ultrasonic welding or mechanical fasteners for permanent plastic assembly? Here's why you should think 3M[™] VHB[™] Tape LSE Series instead:

Adhesives	Ultrasonic welding	Mechanical fasteners
 Immediate handling strength for faster assembly No messy bond lines No crazing or cracking of substrates Helps ensure consistency of delivery quantities Ability to pre-tape parts Reduced waste from open/ unused containers 	 Bond non-compatible materials or delicate substrates Overcome challenging part geometry No upfront investment in ultrasonic welding equipment Removes post-weld finishing/ tooling steps Highly trained labour force not required Tape allows for safer application 	 Bonding dissimilar materials or delicate substrates Clean aesthetics Reduced bulk of final assembly Sealing out water Decreased assembly time Tape allows for safer application

Benefits of 3M[™] VHB[™] Tape LSE Series

More choices. More possibilities.

For help solving your design challenge, please contact a 3M representative.

Additional Low Surface Energy (LSE) Bonding Solutions

Adhesive Type	3M Product	Key Features	Thickness
3M [™] VHB [™] Tapes	3M [™] VHB [™] Tape LSE-060	Acrylic foam tape that resists hot, cold and cycling	0.60 mm
	3M™ VHB™ Tape LSE-110	temperatures, UV light, moisture and solvents, and seals against environmental conditions. Can be applied without a primer for increased productivity.	1.1 mm
	3M™ VHB™ Tape LSE-160		1.6 mm
	3M™ VHB™ Tape 5952	Specifically designed for good adhesion to medium surface energy plastics and powder-coated paints, metals and glass.	1.1 mm
3M™ Scotch-Weld™ Structural Adhesives	3M™ Scotch-Weld™ Structural Adhesive DP8010	Structural bonds can be achieved without special surface treatments such as chemical etching, plasma, flame, or corona treatment or priming.	
3M [™] Laminating Adhesives	3M™ Double Coated Tape 93010LE	High initial bond strength and shear strength on	0.10 mm
	3M™ Double Coated Tape 93015LE	LSE substrates. Polyester film carrier provides dimensional stability to foams and other substrates to make tape easier to handle during slitting	0.15 mm
	3M [™] Double Coated Tape 93020LE	and die-cutting.	0.20 mm

Do more than ever before.

Think 3M[™] VHB[™] Tape LSE Series for a range of indoor and outdoor, commercial and consumer applications:

- Building components: signage, lighting, windows, décor
- Transportation: trucking, buses, campers, RVs, light rail
- > Appliances: brand placards, internal components, small appliances, kitchen/cleaning tools
- Consumer goods: bottles, toys, games, décor, gifts, trash cans, organization products
- Consumer household plastic products: network hubs, IoT sensors, cameras, thermostats
- Medical equipment: output devices, scanners, accessories
- Outdoor power equipment: brand placards, instrument panels, decoration
- Signs and displays: illuminated signs for restaurants, hotels, retail

Learn more at 3M.ca/VHB



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