Bond low surface energy materials and move your designs to the next level.

From sporting goods and rail cars to home appliances, design and build using LSE materials – such as plastics, foams and powdercoats – with 3M adhesives and tapes for LSE bonding.
Rely on our support.
3M provides our customers with the testing, technology and training needed to create better products.
- 3M solution specialists and application engineers can help with adhesive selection, process improvement
- Our Application Engineers can help test your adhesive design solutions
- With R&D centers in 36 countries, the 3M team is here for your support

Rethink how you design.
Maintain design 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 create breakthrough designs faster and with more durability.

Rethink how you build.
Increase the flexibility and efficiency of the manufacturing line. Eliminate pre-drilling and mechanical fasteners like screws and rivets. Replace sonic-welding and skip unnecessary primers. Create a different kind of bond that lasts longer.
- Reduce weight
- Improve weathering resistance
- Enhance aesthetics
- Assemble dissimilar materials
- Save time with a one-step process
- Reduce surface preparation steps
Push boundaries. Unlock potential.

Design for the ever-changing world with 3M adhesives and tapes for bonding low surface energy (LSE) materials and move your designs to the next level.

**3M Acrylic Adhesive 300MP**
Bond hard-to-bond textures.
Bond securely for the world’s toughest environments.

**3M High-Strength Acrylic Adhesive 300LSE**
Secure and reliable performance.
Plastic to metal. Rubber to plastic. Even foam to chrome.

**3M VHB™ Tape LSE Series**
Fast and easy high performing solutions.
Reduce production time as you design and build for hot and cold cycling environments.

**3M Scotch-Weld™ Structural Plastic Adhesives DP8010 and DP8010NS**
Achieve structural strength quickly.
Our strongest bond for low surface energy materials.
Bond hard-to-bond textures.

Provides high adhesion to a wide variety of materials, including plastics and foams. Delivers versatile performance in harsh outdoor conditions.

Key advantages:
- Excellent adhesion to open cell foams
- Consistent adhesive performance to many plastics
- Flows easily into textured materials
- Designed for exposure to UV, humidity and more

Recommended applications:
- Foam lamination
- Gasket attachment
- Insulation attachment
- General attachment
- Automotive headliner bonding

Bonds these substrates:
- Open and closed cell foams
- Felt
- Carpet/textiles/fabric

For more product details, click here.
Your designs will go the distance.

Secure and reliable performance.
Reliably bonds most low surface energy materials, delivering a high initial bond strength. Ideal for both flat and curved surfaces. Provides the freedom to design with a wider range of substrates for more reliable performance and no mechanical fasteners.

Key advantages:
- High initial bond strength
- High shear strength
- Good anti-lifting properties on flat and curved surfaces
- Double-coated tape is easy to die-cut, handle and apply

Bonds these substrates:
- Powder coat
- Aluminum with nylon coating
- Oily metals
- Painted surfaces
- Polypropylene
- Polycarbonate with coating

Recommended applications:
- Plastic to metal
- Chrome to plastic
- Metal speaker mesh to plastic
- Dissimilar materials

For more product details, click here.
Fast and easy high performing solutions.

The 3M™ VHB™ Tape LSE Series provides a range of double-sided acrylic foam tape developed specifically for LSE substrates. Create long-lasting, high strength bonds without the use of a primer or adhesion promoter, reducing your overall production time. Now you’re free to choose the material that’s right for your design.

For more product details, click here.

**Key advantages:**
- Very high bond strength in a lightweight tape
- Immediate handling strength for faster assembly
- Bonds most LSE substrates without the need for primer or adhesion promoter
- Resists hot, cold and cycling temperature, UV light, moisture and solvents

**Recommended applications:**
- **Building components:** signage, lighting, windows, décor
- **Transportation:** truck, bus, camper, RV
- **Appliances:** brand placards, internal components, small appliances, kitchen/cleaning tools
- **Outdoor power equipment:** brand placards, instrument panels, decoration
- **Signs and displays:** illuminated signs, restaurants, hotels, retail

**Bonds these substrates:**
- **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)/fiberglass, carbon fiber
- **Metals, glass and plastics**
Achieve structural strength quickly.

A two-part, acrylic-based adhesives (10:1 ratio by volume) that can bond many low surface energy plastics, including many grades of polypropylene, polyethylene, thermoplastic elastomers (TPE), and thermoplastic olefin (TPO) without special surface preparation. Replace screws, rivets, plastic welding, and two-step processes which include chemical etchants, priming or surface treatments in many applications.

Key advantages:
- Creates strong bond on low surface energy plastics (LSE), such as polyolefin, with minimal or no surface prep required
- Resists many chemicals, water, humidity and corrosion
- Formulated to bond multi-material assemblies such as LSE plastics, thermoplastics, composites and metals
- 10-minute work life with 60-minute handling strength

Recommended applications:
- Transportation assemblies
- Signage and point-of-purchase
- Joining plastics to metals, such as in the manufacture or repair of appliances
- Bonding low surface energy plastics without priming
- Manufacture or repair of various sporting goods equipment

Bonds these substrates:
- Low surface energy plastics such as polypropylene, polyethylene and thermoplastic elastomers (TPEs)
- Composites
- Metals
- High and low density polyethylene (LDPE and HDPE)

For more product details, [click here](#).
Which adhesive or tape is right for you?

Our wide range of LSE adhesives and tapes makes it possible to find the best solution for your substrates, application and performance requirements.

Key factors in determining an adhesive or tape:

- What substrates are being bonded?
- What type of joint design is used?
- How much stress will be applied to the bond area?
- What environmental conditions will the product endure?

### 3M Adhesives and Tapes for LSE Bonding Comparison

<table>
<thead>
<tr>
<th></th>
<th>3M Thin Bonding Tapes</th>
<th>3M™ VHB™ Tapes</th>
<th>3M™ Scotch-Weld™ Structural Adhesives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy convertibility</td>
<td>Easy convertibility</td>
<td>Immediate handling strength for a fast, easy application process</td>
<td>Strongest dead-load weight performance</td>
</tr>
<tr>
<td>for customization</td>
<td>for customization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fast and easy peel</td>
<td>Fast and easy peel</td>
<td>Bonds dissimilar materials</td>
<td>Able to be applied in broad range of joint designs like sealing and potting</td>
</tr>
<tr>
<td>and stick application</td>
<td>and stick application</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wide variety of durable</td>
<td>Wide variety of durable and reliable tape types and formats</td>
<td>Noise and vibration damping</td>
<td>Easily automated and can be applied to irregular shapes</td>
</tr>
<tr>
<td>and reliable tape types and formats</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bondline thickness:</td>
<td>Bondline thickness:</td>
<td>Bondline thickness:</td>
<td></td>
</tr>
<tr>
<td>.05 to .20 mm</td>
<td>0.6–1.6 mm</td>
<td>0.12–3 mm</td>
<td></td>
</tr>
</tbody>
</table>

For more information and assistance on adhesive or tape selection:

Visit [3M.com/lsebonding](https://www.3M.com/lsebonding)  |  Contact a 3M expert at 1-800-362-3550

3M, VHB and Scotch-Weld are trademarks of 3M Company. © 2020 3M. All rights reserved.

**Product Selection and Use:** 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. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 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, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 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 for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.