ISOLOSS™ LS POLYURETHANE FOAMS

Versatile and durable foams customized for your needs.
ISOLOSS™ LS Polyurethane Foams have a low compression set, high durability, and broad operating temperature ranges. These all-purpose foams come in a wide range of densities and thicknesses. A unique combination of design features allow for custom-made solutions for different applications.

ISOLOSS™ LS Foams come in bulk-roll format for efficient converting. The highly shock absorbent, and flame- and chemical resistant foams provide strength and longevity in extreme environments with a wide temperature range.

Features
- Low compression set
- Broad service temperatures
- High internal strength
- Excellent shock control and cushioning

Applications
- Vibration damping and/or shock absorbing pad in electronic devices
- Gasketing and gap filling across many industries and market segments
- Protecting medical equipment
- High durability for gasketing, padding and sealing applications

Benefits
- Multiple densities allow design engineers to select among a wide range of consistent force deflection (CFD) curves, providing a tailored solution
- A broad service temperature range exceeds typical use requirements
- Rebound characteristics provide a soft and uniform spring-like mechanism to return components to their original state
- Low compression set ensures that the foam maintains its original structure throughout a product’s lifecycle

Market Segments
- Industrial
- HVAC
- Appliance
- Electronics
- Medical
- Power Generation
- Automotive
### Gasketing
- Listed as Gasket & Seal
- Material UL File #MH17135
- 3M adhesive compatible
- Low compression set

### Cushioning and Support
- Soft and supportive
- Multiple stiffnesses available
- Resilient

### Energy Control
- Impact absorption
- Vibration damping
- Conformable to product design

#### LS Part Number Designation
Example: LS-1025LM
- LS — Material Family
- 10 — Density (lb/ft³ or lcf)

#### ISOLOSS™ LS Foams — Primary Applications

<table>
<thead>
<tr>
<th>Thickness (in.)</th>
<th>Density (lb/ft³)</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
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<tbody>
<tr>
<td>0.03</td>
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<td>LS-2003</td>
<td>LS-2503</td>
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<tr>
<td>0.06</td>
<td>10 lb/ft³</td>
<td>LS-1006LM</td>
<td>LS-1506</td>
<td>LS-2006</td>
<td>LS-2506</td>
</tr>
<tr>
<td>0.09</td>
<td>15 lb/ft³</td>
<td>LS-1009LM</td>
<td>LS-1509</td>
<td>LS-2009</td>
<td>LS-2509</td>
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<tr>
<td>0.12</td>
<td>20 lb/ft³</td>
<td>LS-1012LM</td>
<td>LS-1512</td>
<td>LS-2012</td>
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<td>LS-1050LM</td>
<td>LS-1550</td>
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</tbody>
</table>

#### Part Number 3M ID Density / Durometer Dimensions (W x L) Ft² per UOM Material Thickness MOQ UOM

- **LS-1006LM**: 7100219940 10 lb/ft³ 4.5’ x 300’ 1350 0.03” (1/32) 1 Roll
- **LS-1009LM**: 7100229570 4.5’ x 225’ 1012.5 0.09” (3/32) 1 Roll
- **LS-1012LM**: 7100219945 4.5’ x 160’ 720 0.12” (1/8) 1 Roll
- **LS-1019LM**: 7100229562 4.5’ x 100’ 450 0.19” (3/16) 1 Roll
- **LS-1025LM**: 7100229843 4.5’ x 60’ 270 0.37” (3/8) 1 Roll
- **LS-1050LM**: 7100219944 4.5’ x 60’ 270 0.50” (1/2) 1 Roll
- **LS-1506**: 7100219934 4.5’ x 300’ 1350 0.06” (1/16) 1 Roll
- **LS-1509**: 7100229561 4.5’ x 225’ 1012.5 0.09” (3/32) 1 Roll
- **LS-1512**: 710219937 4.5’ x 160’ 720 0.12” (1/8) 1 Roll
- **LS-1519**: 7100229556 4.5’ x 100’ 450 0.19” (3/16) 1 Roll
- **LS-1525**: 7100219935 4.5’ x 80’ 360 0.25” (1/4) 1 Roll
- **LS-1537**: 710219936 4.5’ x 60’ 270 0.37” (3/8) 1 Roll
- **LS-1550**: 7100219938 4.5’ x 60’ 270 0.50” (1/2) 1 Roll
- **LS-2003**: 7100219934 4.5’ x 300’ 1350 0.03” (1/32) 1 Roll
- **LS-2006**: 7100219861 4.5’ x 300’ 1350 0.06” (1/16) 1 Roll
- **LS-2009**: 7100229559 4.5’ x 225’ 1012.5 0.09” (3/32) 1 Roll
- **LS-2012**: 7100219860 4.5’ x 160’ 720 0.12” (1/8) 1 Roll
- **LS-2019**: 7100229558 4.5’ x 100’ 450 0.19” (3/16) 1 Roll
- **LS-2025**: 7100219859 4.5’ x 80’ 360 0.25” (1/4) 1 Roll
- **LS-2503**: 7100219857 4.5’ x 300’ 1350 0.03” (1/32) 1 Roll
- **LS-2506**: 7100219858 4.5’ x 300’ 1350 0.06” (1/16) 1 Roll
- **LS-2509**: 7100229557 4.5’ x 225’ 1012.5 0.09” (3/32) 1 Roll
- **LS-2512**: 7100219856 4.5’ x 160’ 720 0.12” (1/8) 1 Roll
- **LS-2519**: 7100229555 4.5’ x 100’ 450 0.19” (3/16) 1 Roll
- **LS-2525**: 7100219855 4.5’ x 80’ 360 0.25” (1/4) 1 Roll

3M™ Laminating Adhesive Adhesion to ISOLOSS™ LS Foams

From climate-controlled offices to harsh outdoor environments, you need high-performance versatility that can withstand whatever conditions customers throw at your products. Whether you’re bonding high surface energy substrates like metals and glass or difficult low surface energy materials like powder-coats and some composites, 3M has a wide variety of durable options for double-sided tapes. 3M offers solutions in standard roll and customer-converted forms to solve and optimize bonding and identification applications. 3M global experts and a network of converters help specify the right solutions to assist our customers in bringing their designs to life.

Compare bonding products based on the ISOLOSS™ LS Foams material in your application.

<table>
<thead>
<tr>
<th>3M Adhesive and Tape</th>
<th>ISOLOSS™ LS Foam (Density 10lb/ft³)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LS-10XXLM</td>
</tr>
<tr>
<td>3M™ Adhesive Transfer Tape 9775WL with 3M™ Acrylic Adhesive 300MP</td>
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<tr>
<td>3M™ Double Coated Tape 9832 with 3M™ Acrylic Adhesive 300MP</td>
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<tr>
<td>3M™ Adhesive Transfer Tape 6035PC with 3M™ Acrylic Adhesive 300MP</td>
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<tr>
<td>3M™ Double Coated Tape DCX-1018</td>
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<td>3M™ Adhesive Transfer Tape 9472LE with 3M™ High-Strength Acrylic Adhesive 300LSE</td>
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<tr>
<td>3M™ Adhesive Transfer Tape 468MP with 3M™ Acrylic Adhesive 200MP</td>
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<tr>
<td>3M™ Adhesive Transfer Tape 9472 with 3M™ Adhesive 300</td>
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<tr>
<td>3M™ Adhesive Transfer Tape 9627 with 3M™ Quick Bonding Adhesive 360</td>
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<td>3M™ Double Coated Tissue Tape 9456 with 3M™ Adhesive 340</td>
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<td>3M™ Double Coated Tape 9816</td>
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<td>3M™ Scrim Reinforced Adhesive Tape L1+RT</td>
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<tr>
<td>3M™ Adhesive Transfer Tape L2+T5</td>
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</tr>
<tr>
<td>3M™ Adhesive Transfer Tape L3+T5</td>
<td>●</td>
</tr>
</tbody>
</table>

Notes:
1. The chart does not include every 3M Adhesive and Tape option. Foam adhesion results will be similar for tapes with the same adhesive family.
2. Contact your 3M representative or view the 3M Converter Guide to learn more about 3M Laminating Adhesives.

Testing used a modified version of ASTM D-1876 (T-Peel) test method. The “Good-Better-Best” rankings are based on the failure mode for the foam and not the adhesive bond. The technical data is only for adhesion to the foam. This data should not be used for specification purposes and needs to be evaluated with the substrates being used.

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