

3M Science.
Applied to Life

Isolating to help enable corrosion prevention

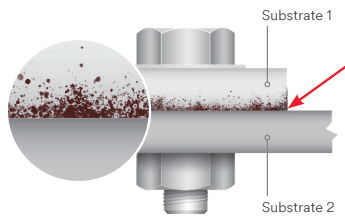
A solution designed for electrical isolation

As the trend for light-weighting and bonding of dissimilar materials increases, aluminum, steel, and composites are more commonly used in Body in White, e-powertrain, and vehicle assembly applications. Designed to help prevent galvanic corrosion, 3M™ Structural Isolation Tape SIT2010 is a single sided, die-cut tape solution offering serviceability that provides a durable and abrasion resistant isolation layer between dissimilar materials.



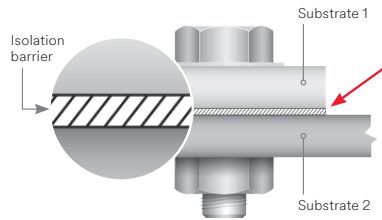
Galvanic corrosion

Without an isolation barrier

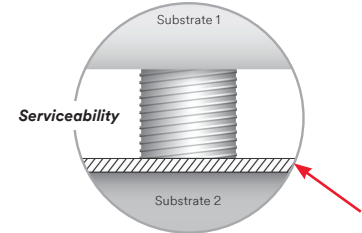


Galvanic corrosion is present where dissimilar materials are used in the field without an isolation barrier

With 3M™ Structural Isolation Tape SIT2010



Adding 3M Structural Isolation Tape SIT2010 will help protect the substrates from galvanic corrosion



Single sided solution, allowing parts to be readily disassembled after cure for serviceability

Key features of 3M Structural Isolation Tape SIT2010

Process Optimization

- Optimized to cure in existing automotive bake cycles (paint-bake and e-coat cure)
- Compatible with the e-coat bath and cure process in both a cured and uncured state
- Single sided solution, allowing parts to be readily disassembled after cure for serviceability
- Six month shelf life from date of shipment when stored at $\leq 74^{\circ}\text{F}$ ($\leq 23^{\circ}\text{C}$)
- Automated or manual application to best fit customer processes
- Compatible with standard stamping/drawing lubricants

Bond durability

- Durable, abrasion-resistant isolator
- Broad service temperature range of -40°F to 176°F
- Chemical resistance to most standard automotive fluids
- Electrically insulating

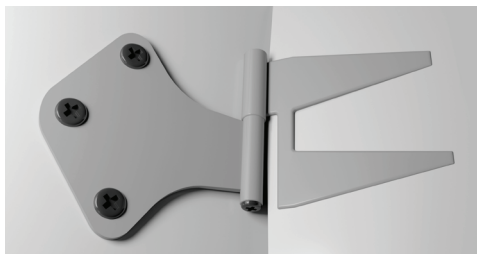
Design Flexibility

- Customized to fit customer processes and size requirements, including die-cut parts to meet design needs
- Structurally bonds to a variety of surfaces and substrates
- Easy application to non-flat surfaces
- Compatible with steel, aluminum and standard stamping/drawing lubricants (testing to additional substrates is available upon request)

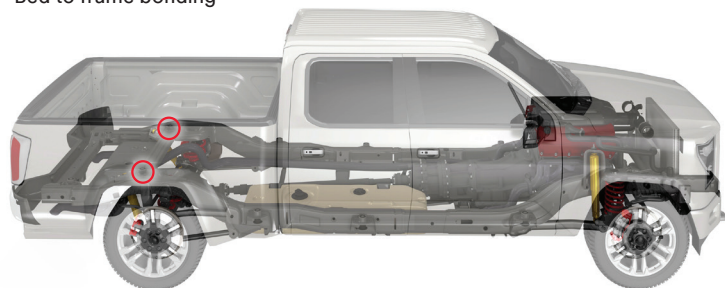
Possible Applications

- Applications requiring the isolation of dissimilar materials, such as: bumper, bed, body, trailer, bed to frame, or e-powertrain
- Electronic applications requiring isolation
- Applications requiring ovens

Hinge bonding



Bed to frame bonding



Contact Information

The information provided in this document is intended as a guide for this product. For more information or help in selecting a 3M product for an application, please contact your 3M application engineering representative or call 1-800-328-1684.

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