

3M™ Tapes and Adhesives for Point-of-Care, Diagnostic and OTC Testing

Precise. Fast. Repeatable.

3M™ Thin Bonding Tapes and thin PSA constructions form sealed channels and chambers with consistent thickness, enabling roll-to-roll assembly and consistent application. For high-throughput assembly and repeatable processes, ideal in point-of-care and other testing.

Reliable integration

- Forms clean, durable, and dimensional stability features.
- Consistent coated thickness for reliable integration.

Secure sensitive components

- Bond membranes, films and optical windows with dimensional stability.
- Preserve reagent alignment and test accuracy.

Enable high-speed manufacturing

- Roll-to-roll compatible adhesives for efficient lamination.
- Quick-stick performance supports rapid pick-and-place assembly.



Product Family	Tape Family Features	Medical Applications	Solved Design Challenges
3M™ Silicone/Acrylic Differential Tapes Dual-adhesive tapes with a silicone adhesive on one face and high-performance acrylic on the other, separated by a PET carrier – enabling strong silicone-to-non-silicone bonds with high temperature and chemical resistance.	Differential adhesive: silicone on one side, acrylic on the other. Strong adhesion to silicone, foam, and elastomers. Resistant to high temperature and chemical exposure.	Gasket-to-housing seals, disposable interface attachments.	Seal and protect interfaces in surgical and single-use devices. Conform to complex shapes for ergonomic or anatomic designs. Integrate tactile or backlit sensors without compromising flexibility.
3M™ Durable Label Material Advanced medical label materials with versatile topcoats, high-performance adhesives, liners and more offering LSE adhesion, conformability, and resistance to chemicals, sterilization, and cryogenic conditions.	Adhesion to high- and low-surface-energy substrates, including flat, curved, and soft surfaces. Resistant to sterilization, extreme temperatures, and environmental stress. Available in multiple facestocks and certified for medical applications.	Both durable and ad-hoc methods for conveying information, including labels for specimens, vials, instructions, warnings, and safety guidance.	Durable, conformable, and suitable for tubes, syringes, bottles, and tight-mandrel labeling. Resistant to chemicals, solvents, sterilization (autoclave, EtO, gamma), and cryogenic cycles. Tamper- and destruction-proof for medical and diagnostic applications.
3M™ High Performance Acrylic Adhesives 200MP Family A high-shear, solvent- and humidity-resistant acrylic system offering strong, durable bonds to metals and high surface energy plastics with short-term heat tolerance to ~400 °F / 204 °C and short-term repositionability during assembly.	Excellent adhesion to metals and high-surface-energy plastics. High temperature and resistant to chemicals and UV. Short-term repositionable for easier and more accurate assembly.	Small component bonding, general OTC testing equipment.	Enable ultra-compact, wearable electronics. Withstand repeated sterilization and harsh cleaning cycles. Support clean, high-speed automated assembly.
3M™ High Strength Acrylic Adhesives 300LSE Family A high-adhesion acrylic system engineered for bonding low surface energy plastics (PP, PE, PEEK) and dissimilar substrates, with strong shear performance, chemical and humidity resistance, and good anti-lifting on flat or curved surfaces.	Adhesion to low- and high-surface-energy substrates, including metals and plastics. Chemical- and humidity-resistant, anti-lifting, suitable for bonding dissimilar materials. Conformable on flat and irregular surfaces for compact and durable multi-material assemblies.	Sealed housings, small component mounting (LEDs, antennas), nameplates.	Bond challenging low-surface-energy plastics and dissimilar materials. Maintain adhesion under chemical, humidity, and sterilization stress. Conform to complex, curved device geometries for compact assemblies.
3M™ Acrylic Adhesive 400 Family High-performance acrylic adhesives offering strong initial adhesion to glass, metals, and high-surface-energy plastics, short-term temperature resistance, and flexible transfer-tape formats lamination, labeling, and assembly.	Strong initial adhesion to glass, metals, and high-surface-energy plastics. Good short-term temperature resistance for assembly processes. Transfer tape constructions enable thin, uniform bonding.	Optical sensor window bonding; display sealing for analyzers.	Create reliable bonds to glass and high-energy plastics. Withstand short-term assembly heat while building long-term strength. Support flexible transfer-tape constructions for automated, high-speed production.
3M™ Ultra Clear Double Coated Tapes Ultra-thin, ultra-clear double-coated polyester tapes delivering high light transmission (~90%), low haze (~1.1%), cleanroom-manufactured non-silicone acrylic adhesives to minimize optimal contamination.	High optical clarity with low haze and 90% light transmission. Excellent initial tack, adhesion, and shear strength. Cleanroom production.	Optical sensor window bonding, display sealing for analyzers.	Preserve display contrast and sensor accuracy. Reduce defects and losses in cleanroom assembly.
3M™ VHB™ Tapes Closed-cell acrylic foam tapes providing high holding power, impact and vibration damping, and moisture sealing in a low-profile format, with variants offering firmness or conformability, semi-structural strength, LSE compatibility, gap-filling, and environmental sealing.	Closed-cell acrylic foam seals against moisture and contaminants. Strong adhesion to low- and high-surface-energy substrates with energy absorption. Excellent mechanical, impact, and temperature performance for durable assemblies.	Sealed enclosures, lens and cover glass bonding, ruggedized instrument housings.	Bond diverse plastics, glass, and painted surfaces without fasteners. Fill gaps and reduce rework in tolerant assemblies. Protect components from moisture and impact.

BIOCOMPATIBILITY & USE RESTRICTION: The industrial adhesives and tapes presented here have not been tested for biocompatibility per ISO 10993 (Biological evaluation of medical devices). **No Skin Contact:** These products are not intended for direct or indirect contact with skin, mucous membranes, internal tissues, or biological, analyte, or medicinal samples. **Customer Validation:** It is the customer's responsibility to determine if these industrial materials are safe for use within their specific medical device application (e.g., MRI assembly, device housing, equipment labeling). 3M disclaims all liability for adverse biological reactions resulting from the use of these industrial materials in medical applications.

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