

3M Science.
Applied to Life.™

3M™ Flexible Circuitry Bonding Solutions

Make a strong connection.

Optimize performance and design with
the right tape for your FPC application.

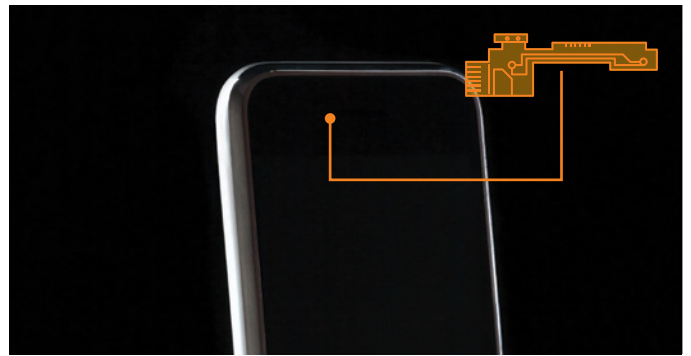
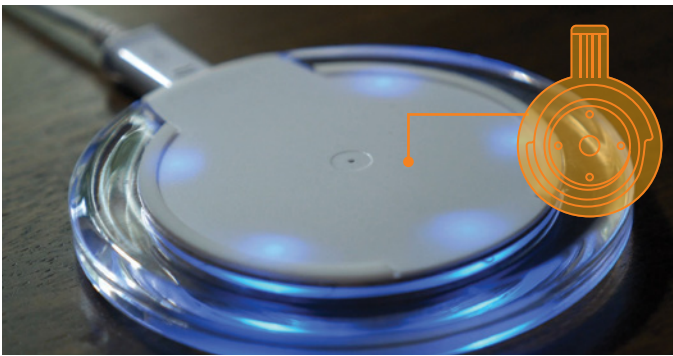


Flexible Printed Circuits (FPC) are in virtually everything.

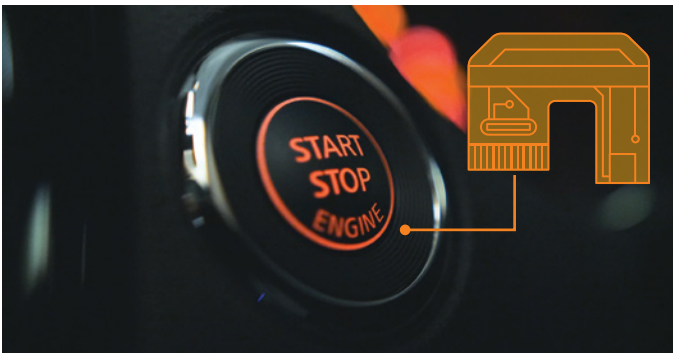
Flex bonding is not a one-size-fits-all solution. The success of your intricate design requires a specific, reliable FPC bonding method. 3M™ Flexible Circuitry Bonding Solutions give you the exact tape for your exact need — so you can create without limits.

- ▶ The right tape gives you the best reliable bonding to different materials, from metal to plastics to polyimide
- ▶ Tape enables fast processing
- ▶ Tape meets your high temperature processing needs
- ▶ More die-cutable options give you a more accurate edge profile
- ▶ Anti-lifting tapes stay bonded even around curved or bended surface designs
- ▶ Tapes are available anywhere in the world

▶ Electronics



▶ Automotive



▶ Appliances and more



Better results. Better match. Better tape.

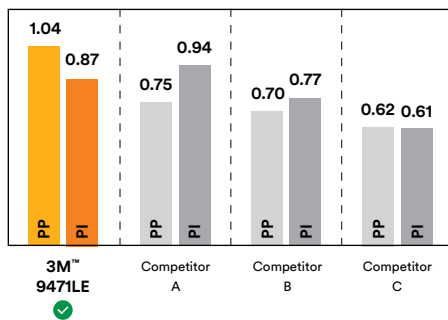
SELECTION GUIDE: GET THE RIGHT TAPE FOR YOUR SPECIFIC NEED

SUBSTRATE TO BOND OR PROCESS NEED	RECOMMENDED GO-TO 3M PRODUCT(S)
Standard solution for bonding metal/FR4 to polyimide	3M™ Adhesive Transfer Tape 467MP (0.06mm) 3M™ Double Coated Tape 9492MP (0.05mm)
Robust solution for bonding hard-to-bond material (PC/ABS/PA/PET/powder-coated metal) to polyimide	3M™ Adhesive Transfer Tape 9471LE (0.06mm) 3M™ Double Lined Double Coated Tape 93005LE (0.05mm)
Anti-lifting solution for curved FPC bonding	3M™ Adhesive Transfer Tape 9471LE (0.06mm)
High temperature resistant (up to 125°C/257°F) FPC bonding	3M™ Adhesive Transfer Tape F9460PC (0.05mm)
Reflow FPC process (up to 260°C/500°F)	3M™ Ultra High Temperature Double Coated Tape 9077 (0.05mm) 3M™ Ultra High Temperature Adhesive Transfer Tape 9079 (0.05mm)
Thin solution (<0.05mm) for FPC bonding	3M™ Ultra Clear Double Coated Tape UCT-30 (0.03mm) 3M™ Ultra Clear Double Coated Tape UCT-10 (0.01mm)
Conductive FPC bonding	3M™ Electrically Conductive Adhesive Transfer Tape 9707 (0.05mm) 3M™ Electrically Conductive Double-Sided Tape 9711S-30 (0.03mm) 3M™ Electrically Conductive Double-Sided Tape 9711S-50 (0.05mm) 3M™ XYZ-Axis Electrically Conductive Adhesive Transfer Tape 9720 (0.03mm) 3M™ Electrically Conductive Double-Sided Non-Woven Tape 9750 (0.055mm)
Thermal bonding film for FPC bonding	3M™ Thermal Bonding Film 583 (0.05mm)

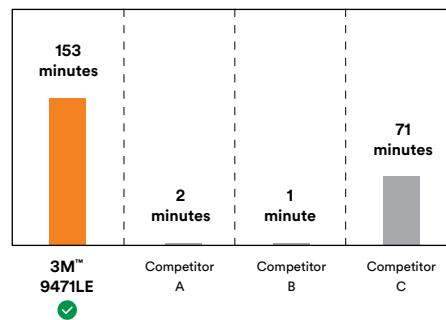
See back page for detailed product information.

WINNING PERFORMANCE DATA: 3M TAPE SOLUTIONS VS. ALTERNATE SUPPLIERS

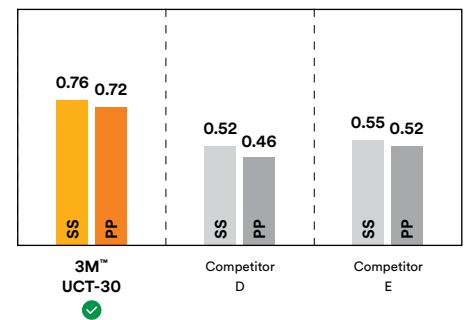
Bonding Strength on Hard-to-Bond Material (72-hour peel)



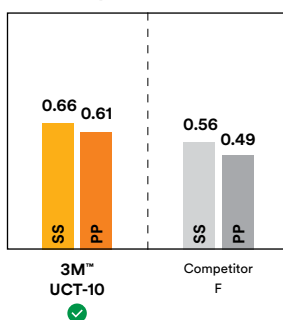
Anti-lifting Performance (longer time = better)



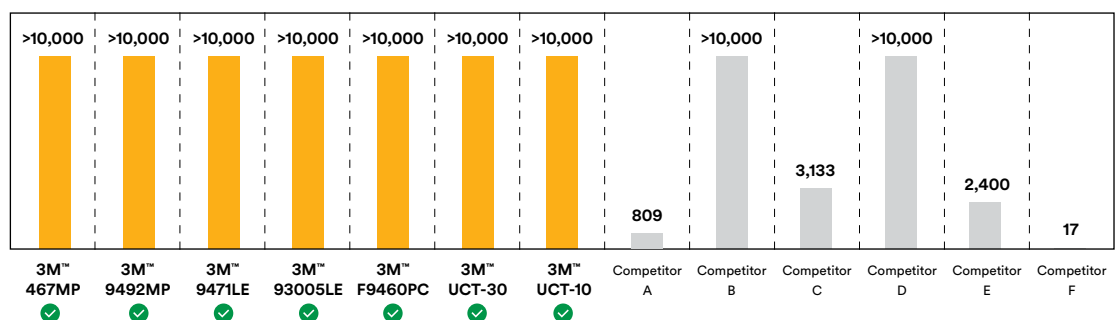
Thin Solution (0.03mm) (72-hour peel)



Thin Solution (0.01mm) (72-hour peel)



70°C/158°F Shear Performance (minutes)



3M™ Flexible Circuitry Bonding Solutions

Go-to Product Information

Tape Thickness (mm)	Product	Adhesive Type	Carrier	Liner Type	Color
0.06	3M™ Adhesive Transfer Tape 467MP*	3M™ High Performance Acrylic Adhesive 200MP	—	PCK # 58	Clear
0.05	3M™ Double Coated Tape 9492MP*		Polyester	PCK # 58	Clear
0.06	3M™ Adhesive Transfer Tape 9471LE*	3M™ High Strength Acrylic Adhesive 300LSE	—	PCK # 58	Clear
0.05	3M™ Double Lined Double Coated Tape 93005LE*		Polyester	PCK # 58	Clear
0.05	3M™ Adhesive Transfer Tape F9460PC*	3M™ High Performance Acrylic Adhesive 100MP	—	PCK # 58	Clear
0.05	3M™ Ultra High Temperature Double Coated Tape 9077	3M™ Ultra High Temperature Acrylic Adhesive 100HT	Non-woven	Heat Resistant	Clear
0.05	3M™ Ultra High Temperature Adhesive Transfer Tape 9079		Non-woven	Heat Resistant	Clear
0.01	3M™ Ultra Clear Double Coated Tape UCT-10	Modified Acrylic	Polyester	PET	Ultra Clear
0.03	3M™ Ultra Clear Double Coated Tape UCT-30		Polyester	PET	Ultra Clear
0.05	3M™ Electrically Conductive Adhesive Transfer Tape 9707	Conductive Acrylic	—	PET	Clear
0.03	3M™ Electrically Conductive Double-Sided Tape 9711S-30		Conductive Fabric	PET	Clear
0.05	3M™ Electrically Conductive Double-Sided Tape 9711S-50		Conductive Fabric	PET	Clear
0.03	3M™ XYZ-Axis Electrically Conductive Adhesive Transfer Tape 9720		—	PET	Clear
0.055	3M™ Electrically Conductive Double-Sided Non-Woven Tape 9750		Conductive Non-woven	PCK	Gray
0.05	3M™ Thermal Bonding Film 583		Nitrile Phenolic Based Thermoplastic	—	Silicone Paper

Thicker tapes are also available — check with your 3M sales representative.

Expect performance. Spec 3M. 3M.com/FPCBonding



Globally available:

Specify and produce anywhere in the world.

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.



Solventless Technology:

*3M™ High Performance Acrylic Adhesive 200MP, 3M™ High Strength Acrylic Adhesive 300LSE and 3M™ High Performance Acrylic Adhesive 100MP are made with a solventless technology.

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