3M Medical Device Solutions

Think 3M First from design to patient

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3M

Think from design to patient 3M First

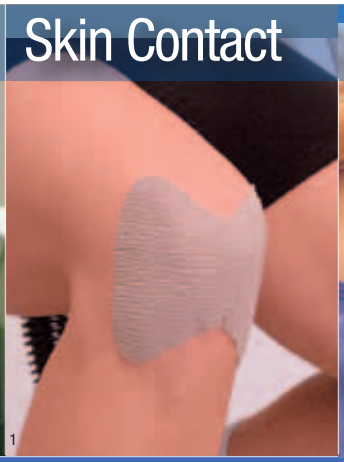
Single resource integrating solutions from over 40 platforms across 3M

- Applications success with healthcare adhesives for over 60 years
- Supplying components to healthcare product manufacturers for over 30 years
- Same 3M brand promise in medical device OEM products as in the more than 10,000 3M branded healthcare products
- GMP, ISO 13485, ISO 9001, and FDA-registered plants as applicable

- Breadth, depth, and flexibility to work with medical device OEMs to find existing solutions or develop new ones
- Tradition of imagination in products ranging from surgical tape to adhesives for hard-to-bond surfaces

- Resources to support local, regional, and global customers with personal sales and service in more than 65 countries
- Experts around the world to partner with global entities in product development
- Healthcare development and manufacturing hubs in China, Germany, Poland, Thailand, and United States for expediting support

• 3M™ Single-Coated Tapes • 3M™ Woven Tapes • 3M™
Grade Instant Adhesives • 3M™ Hook and Loop Fasten
Transfer Tapes • 3M™ Blood Bag Tracking Label Ma
Fasteners • 3M™ Scotch-Weld™ UV-Curing Adhesiv
Films • 3M™ VHB™ Tapes • 3M™ Laminating Adhesive
Tapes • 3M™ Hydrocolloid Adhesive Tapes • 3M™ Non-Woven Tape
• 3M™ Polyester Tapes • 3M™ Scotch-Weld™ Structural Epoxy,



Reduce your

•Breathabil
attachment • High shear strength • LSE bonding • Sterilization
ISO 10993 Compliance • Conformable • Printable • Vial labels
• Clinical summaries • Brand identification • Thin bondline • La
• Needle assembly • Temperature resistance • Bond dissimilar
rate • Gentle or aggressive cardio monitor attachment • Die-cut

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es • 3M

Polyurethane

Dual Lock™ Reclosable Fasteners

Urethane and A sives • 3M bel Materials • 3M™ Double-Coated Tapes

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Device Assembly

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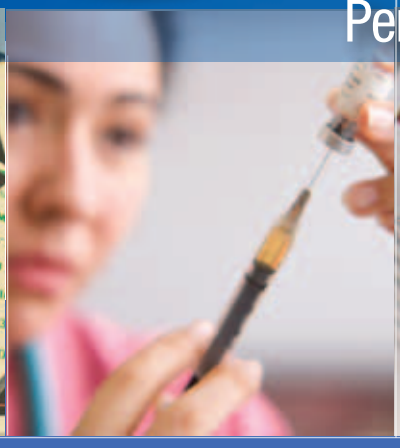
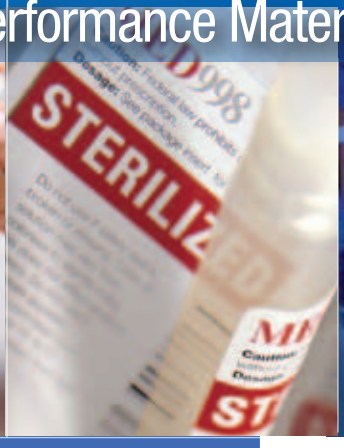


Performance Materials



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pressure for many applications

Flexibility • Graph

compatibility • Peel resistance • Fluid resistance • EMI/RFI shielding • Biocompatibility •

• Gown closure • Surface protection against scratches and marring • Vibration resistance •

atex-free • Stick-to-skin with comfortable removal • Bond on contact • Permeability • Keypad

surfaces • Gasketing • Cure time selection • Easy-to-handle • Choice of moisture vapor tran

t tapes for precise fit • Replace screws • Faceplate attachment • Ostomy pouch components

3M™ Medical Tapes*

3M offers a broad range of medical grade tapes and component products used in many of the major market segments:

- **Surgical Device Components**
  3M™ Double Coated Tapes and 3M™ Single Coated Tapes, 3M™ Adhesive Transfer Tapes, and 3M™ Reclosable Fasteners for drapes, gowns, tube and cord organizers and other disposable devices used in conjunction with the operating arena.

- **Medical Device Components**
  3M™ Double Coated Tapes and 3M™ Single Coated Tapes, 3M™ Foam Tapes, 3M™ Nonwoven Tapes, 3M™ Hydrocolloid Adhesive and 3M™ Hydrophilic Film for wound care, device attachment and strapping.

- **Ostomy and Continence Device Components**
  3M™ Double Coated Tapes, 3M™ Adhesive Transfer Tapes, 3M™ Nonwoven Tapes, 3M™ Foam Tapes and 3M™ Hydrocolloid Adhesive for pouch attachment and construction.

- **Biomedical, Electrodes and Iontophoresis Device Components**
  3M™ Nonwoven Tapes, 3M™ Double Coated Tapes and 3M™ Foam Tapes for electrodes and grounding pads, pulse oximeters, securing diagnostic instruments and iontophoresis.

- **Retail Device Components**
  3M™ Nonwoven Tapes, 3M™ Double Coated Tapes and 3M™ Single Coated Tapes, 3M™ Foam Tapes and 3M™ Hydrocolloid Adhesive.

6 Wound care tapes with comfortable removal.

7 Gentle or aggressive cardio monitor attachment.

8 Easy-to-handle skin-friendly surgical drapes.

2 Ostomy pouch assembly with reliable barrier properties.

10 Breathable tape for skin hydration.

1 Breathable tape for extended wear.

*** Clinical data summaries per ISO 10993 available upon request.**

Adhesive Type	Product Number	Substrate/ Backing	Typical Use	Conformability	Tape Thickness mils (mm)	Fluid Resistance Backing/ Carrier	Adhesion to Plastic (Surface Energy) HSE	Adhesion to Plastic (Surface Energy) LSE	Breathable	Printable
Single-Coated Film Tapes										
Hydrocolloid	9943/ 9943J	PUR	Foot care, wound dressings, ostomy	Med	19 (0.5)	√			√	√
Tack. Hydrocolloid	9944J	PUR	Foot care, wound dressings, ostomy	Low	26 (0.7)	√	√		√	√
Tack. Hydrocolloid	9945	Heatsealable PE	Foot care, wound dressings, ostomy	Low	29.5 (0.75)	√	√		√	√
Acrylic	1525L	3 mil LDPE	Repeat skin adhesion to medical devices	High	4.4 (0.11)	√	√			√
Acrylic	9865	3 mil LDPE	Printable plastic tape, FADs, temp tattoos	High	4.4 (0.11)	√	√			√
Acrylic	9835	4mil White PE/EVA	Opaque, electrodes, electronic protective covering	Med	5.5 (0.14)	√	√			√
Acrylic	9834/ 9833	0.8/1.1 mil PUR	Skin protection and wound care	Very High	1.8/2.0 (0.05)	√	√		√	√
Acrylic	9948	1mil Co-PET	Surgical incise drapes and wound care	Very High	2.0 (0.05)	√	√		√	√
Tack. Acrylic	1516	1 mil Clear Polyester	High skin adhesion to medical devices, reinforce	Med	2.3 (0.06)	√	√	√		
Tack. Acrylic	1521	5 mil LDPE		Med	6.4 (0.16)	√	√	√		√
Tack. Acrylic	1503/ 1523	3.6 mil PE (Tan/Blush)	Opaque skin attachment	Med	5.0 (0.13)	√	√	√		√
Tack. Acrylic	1526	3.6 mil LDPE Clear	High skin adhesion to medical devices	Med	5.0 (0.13)	√	√	√		√
Tack. Acrylic	9830	1.5mil LDPE	Surgical incise drape	Very High	2.6 (0.07)	√	√	√		√
Tack. Acrylic	1527	Perforated PE/EVA	Sensor secural to skin, easy tearing, porous	Med	7.1 (0.18)		√	√	√	
Tack. Acrylic	1527LX	Perforated PE/EVA	Sensor secural to skin, easy tearing, semiporous	Med	7.1 (0.18)		√	√	√- Slight	
Tack. Acrylic	1527SP	Perforated PE/EVA	Sensor secural to skin, porous	Med	7.1 (0.18)		√	√	√	
Tack. Acrylic	1527ENP	Embossed PE/EVA	Sensor secural to skin	Med	7.1 (0.18)	√	√	√	√-Low	
Single-Coated Fabric Tapes (Woven/Non-woven)										
Acrylic	1529/ 1530(L)/ 1533(L)	Rayon Nonwoven	First aid and wound dressings, temp tattoos	Med	5.5 (0.14)		√		√	√
Acrylic	1785	Heatsealable Rayon	Repeat skin adhesion and wound dressings	Med	5.5 (0.14)		√			√
Acrylic	9926 (Tan/Wht)	Knit Tricot Fabric	Monitoring/diagnostic device adhesion to skin	High			√		√	√
Acrylic	1776/ 9916	PET Spunlace (Wht/Tan)	Monitoring/diagnostic device adhesion to skin	High	11.5-15 (0.3-0.4)		√		√	√
Acrylic	9907 (Tan/Wht)	Elastic Polymer Blend	Monitoring device adhesion and wound dressings	High	10 (0.25)		√		√	√
Tack. Acrylic	9904 (Tan)	PUR	Medical device attachment and wound dressings	High	11 (0.28)		√		√	√
Tack. Acrylic	9907HTW	Elastic Polymer Blend	Medical device attachment and wound dressings	High	11 (0.28)		√		√	√
Tack. Acrylic	1538/ 1538L	Rayon Woven Fabric	Monitoring device adhesion and cable organizers	Med	8.0 (0.20)		√	√		√
Single-Coated Foam Tapes										
Acrylic	1773	31mil PE Foam, White	Monitoring /diagnostic device adhesion to skin	Med	34 (0.9)	√	√			√
Acrylic	1774T/ 1774W	20mil PE Foam, Tan/White	First aid dressings and wound care, temp tattoos	High	22.0 (0.60)	√	√			√
Acrylic	9776	31mil PE Foam, Tan	Monitoring /diagnostic device adhesion to skin	Med	37.0 (0.94)	√	√			√
Acrylic	9777L	32mil PVC Foam	Treatment pad, dressings, cover taping to skin	High	34 (0.9)	√	√		√	√
Acrylic	9780/ 9781	20mil PVC Foam (Blue/Ivory)	Retail item adhesion to skin, food services FADs, monitoring	High	22.5 (0.60)	√	√		√	√
Tack. Acrylic	1772 (White)	63mil PE Foam	Monitoring /diagnostic device adhesion to skin	Low	65(1.7)	√	√	√		√
Double-Coated Tapes & Transfer Adhesives										
Acrylic	9874/ 1522	3 mil LDPE	Repeat skin adhesion to medical devices	Med	4.9 (0.12)/ 6.3 (0.16)	√			√	
Syn. Rubber/ Acrylic	1587	0.5 mil PET	Device secural to skin, device construction, gentle	Med	2.8 (0.07)	√	√	√ 1 side		
Acrylic	9917	Spunlace Nonwoven	Skin adhesion or device secural/ lamination	High	12.0 (0.30)		√		√	
Tack. Acrylic	1509/ 9889	3 mil LDPE	Skin adhesion to surgical drapes and devices	Med	4.9 (0.12)	√	√	√		
Tack. Acrylic	1513	1 mil PET	Skin adhesion to devices, construction	Low	3.4 (0.09)	√	√	√		
Syn. Rubber/ Acrylic	1577	1 mil PET	Device secural to skin, device construction	Low	4.5 (0.11)	√	√	√		
Tack. Acrylic	1524/ 1524A	Fiber-reinforced Trans Adh	Aggressive adhesion of device to device/skin	High	2.5 (0.06)		√	√	√	
Syn. Rubber	1510	1 mil HDPE	Co-adhesion of flexible/contoured substrates	High	3.8 (0.10)	√	√	√		
Syn. Rubber	9877	1 mil PET	Skin adhesion or co-adhesion of devices	Low	4.5 (0.11)	√	√	√		
Syn. Rubber	1504XL	Transfer Adhesive	Aggressive adhesion of device-to-device	Med	4.0 (0.1)	√	√	√		
Syn. Rubber	1567	1 mil PET	Co-adhesion of flexible/contoured substrates	Low	5.0 (0.13)	√	√	√		

Adhesion Level: Gentle ↑ Aggressive

NOTE: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Device Assembly

3M™ Scotch-Weld™ Medical Grade Instant Adhesives

Seconds fast bonding of most plastics, rubber, and metals is just one of the many advantages of these structural strength adhesives.

- Fast curing with handling strength in as fast as 3 seconds
- Adhering difficult-to-bond plastics and rubber with little or no surface preparation, expanding your material options
- Low odor to reduce need for sophisticated ventilation
- Low/bloom/frosting for a more visually appealing product
- Flexibility for impact resistance
- Viscosities from wicking to gap filling
- Sizes matched to volume from prototyping to automated production

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3M™ Scotch-Weld™ Medical Grade UV Curing Adhesives

Bond glass, most plastics and metals with clean, thin bond lines. Rapid cure and easy dispensing are among the many properties to help improve production and end use:

- Reach handling strength in as fast as 3 seconds to improve throughput
- Cures clear for the aesthetics of glass and plastic
- Temperature resistance up to 266°F (130°C)
- Range of UV curing or visible light curing to meet process and end use requirements
- Fluorescent capabilities for adhesive bond verification, improving process yield and quality
- Compatible with manual, semi-automatic, or fully automatic dispensing

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3M™ Scotch-Weld™ Structural Adhesives for metal, plastics, rubber, and more

As an alternative to mechanical or fusion fastening, the reasons for 3M™ Scotch-Weld™ Structural Adhesives are many: greater design latitude, cleaner lines, material substitution, less machining, lighter weight, more durability, and often less cost.

Readily find the properties you need –durable adhesion, flexibility, creep resistance, heat and environmental resistance, void-filling, and more.

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Bond soles to boots, bumpers to bottoms

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Bond cost-saving LSE (low surface energy) plastics with little or no surface preparation in footboard assembly.

Product	Typical Viscosity (cps)	Time to Handling (seconds)	Temperature Range	Description	Size
3M™ Scotch-Weld™ Medical Grade Instant Adhesives*					
MG05 PR	5	10-30	-65° to 180°F (-54° to 82°C)	Exceptional performance on difficult-to-bond plastics and rubbers, together or in combination with metals and/or composites; superior performance on PVC, ABS, nylon, EPDM, Viton® Fluorelastomer, and Santoprene™ Thermoplastic Vulcanizate (TPVs); low viscosity wicking grade	28.3 g (1 fl. oz.) 453 g (1 lb.)
MG1500 PR	1500	20-100	-65° to 180°F (-54° to 82°C)	Exceptional performance on difficult-to-bond plastics and rubbers, together or in combination with metals and/or composites; superior performance on PVC, ABS, nylon, EPDM, Viton® Fluorelastomer, and Santoprene™ Thermoplastic Vulcanizate (TPVs); high viscosity for gap filling	28.3 g (1 fl. oz.) 453 g (1 lb.)
MG20 SF	20	3-30	-65° to 180°F (-54° to 82°C)	Super fast cure for high speed production; performance on difficult-to-bond plastics and rubbers; low viscosity	28.3 g (1 fl. oz.) 453 g (1 lb.)
MG100 SF	100	3-30	-65° to 180°F (-54° to 82°C)	Super fast cure for high speed production; exceptional performance on difficult-to-bond plastics and rubbers; low viscosity	28.3 g (1 fl. oz.) 453 g (1 lb.)
MG05 LO	5	5-60	-65° to 160°F (-54° to 71°C)	Low blooming/frosting for cosmetically critical applications; low odor to reduce requirement for sophisticated ventilation equipment; low viscosity wicking grade	28.3 g (1 fl. oz.) 453 g (1 lb.)
MG100 LO	100	10-60	-65° to 160°F (-54° to 71°C)	Low blooming/frosting for cosmetically critical applications; low odor to reduce requirement for sophisticated ventilation equipment; low viscosity	28.3 g (1 fl. oz.) 453 g (1 lb.)
MG300 FLX	300	10-35	-65° to 160°F (-54° to 71°C)	Extended resistance to impact, vibration, stress including peel, and humidity; faster curing than rubber toughened; medium viscosity	28.3 g (1 fl. oz.) 453 g (1 lb.)
3M™ Scotch-Weld™ Medical Grade Instant Adhesive Activators					
MG77 AC	Polyolefin Instant adhesive primer; excellent for difficult-to-bond plastics, such as polyethylene and polypropylene; accelerate cure speed to increase throughput; may attack some sensitive plastics				56.6 g (2 fl.Oz.)
MG79 AC	Elastomeric primer; excellent for difficult-to-bond surfaces, including silicone, Santoprene™ Thermoplastic Vulcanizate (TPVs), Viton® Fluorelastomer, EPDM and others				56.6 g (2 fl.oz.)
3M™ Scotch-Weld™ Medical Grade Light Cure Adhesives*					
MG 90-77 UV	90	10	-58° to 248°F (-50° to 120°C)	Low viscosity, flexible, clear; bonds thermoplastics and metal	25 ml syringe 1 Liter bottle
MG 250-55 UV	250	5	-58° to 248°F (-50° to 120°C)	Medium viscosity, clear; bonds rigid PVC, polycarbonate, and other plastics; flexible for load-bearing and shock resistance	25 ml syringe 1 Liter bottle
MG 6500-74 UV/VIS	6500	3	-58° to 266°F (-50° to 130°C)	High viscosity, clear; bonds glass and metal; rapid cure	25 ml syringe 1 Liter bottle

Product (Color)	Key Features	Mix Ratio (Volume) B:A	Approximate Viscosity 75°F (24°C) (cps)	Approximate Mixed Worklife at 75°F (24°C)	Approximate Time to Handling Strength at 75°F (24°C)	Average T-Peel at 75°F (24°C) (piw)	Overlap Shear (psi)		
							-67°F (-55°C)	75°F (24°C)	180°F (82°C)
3M™ Scotch-Weld™ 2-Part Epoxy Adhesive (Medical Grade)*									
2216 B/A (Gray)	High performance; very flexible bonds	2:3	80,000	90 minutes	10 hours	25	3,000	3,200	400
3M™ Scotch-Weld™ 2-Part Structural Adhesives (Non-Medical Grade)									
DP100 (Clear)	General purpose epoxy Rigid bonds	1:1	13,000	5 minutes	20 minutes	2	900	1,500	300
DP100 Plus (Clear)	High performance epoxy Very flexible, Colorless	1:1	8,500	4 minutes	20 minutes	10	3,000	3,500	200
DP125 (Gray,Translucent)	High performance epoxy Very flexible bonds	1:1	52,500	25 minutes	2.5 hours	35	3,400	4,300	400
DP270 (Black, Clear)	Rigid potting compound Non-corrosive epoxy	1:1	12,000	60 minutes	3 hours	2	1,200	2,500	300
DP601 (Gray)	Flexible urethane Self-leveling	1:1	6,000	1 minute	4 minutes	–	–	2,300	–
DP 640 (Brown)	Tough flexible bonds Non-sag urethane	1:1	25,000	40 minutes	8 hours	–	–	2,000	–
DP810 (Tan, Black)	Tough durable acrylic High impact resistance	1:1	20,000	10 minutes	20 minutes	30	1,200	3,600	500
DP8010 (Off-White)	Acrylic bonds polyolefins and low surface energy materials	10:1	20,000	10 minutes	2 hours	35	–	1,800	400

* Tested in accordance with USP Class VI designation. **NOTE:** This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Device Assembly

3M™ VHB™ Tapes to replace mechanical fasteners in device assembly

Proven more than 30 years to bond and seal many metals, plastics, and other surfaces.

- Bond on contact with no fixturing
- Absorb shock and flexing for reliability against vibration
- Replace rivets and screws for virtually invisible fastening to permanently bond many materials, flat or curved

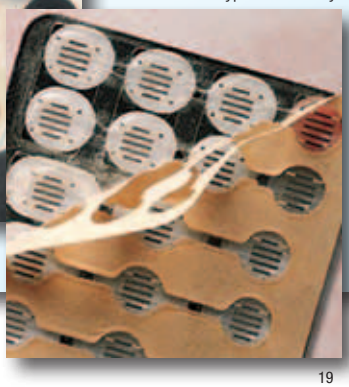
17 Can be die-cut into sizes and complex shapes to bond and seal components throughout a device.

3M™ Double Coated Tapes

With pressure sensitive adhesive on both sides of a polyester carrier, 3M™ Double Coated Tapes increase dimensional stability of adhesive for handling and application ease.

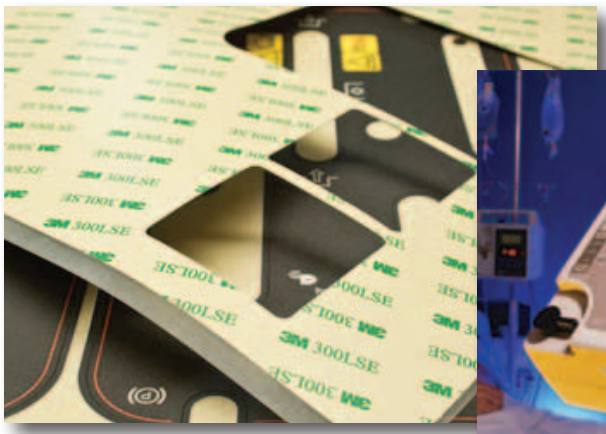
- Choice of adhesives for different application conditions, substrates, and end use requirements
- Same or different adhesive on each side of a carrier to join a wide variety of materials

Gasket attachment 18



Keypad assembly 19

3M™ Adhesive Transfer Tapes



Graphic attachment 20

Faceplate attachment 21

3M™ Adhesive Transfer Tapes are rolls of pressure sensitive adhesive on a release liner. Simply press the adhesive side down to the back of a nameplate, faceplate, or other graphic. When ready to attach, the liner is removed for bonding.

- No drying, no adhesive ooze
- Choice of 3M™ High Strength Acrylic Adhesive 300 LSE for adhesion to low surface energy (LSE) plastics and powder coated paints or Quick Bonding 3M™ Laminating Adhesive 360 for a wide variety of surfaces

Product Number	Tape Thickness w/o liner Mils (mm)	Liner Type	Description	Adhesive	Temperature Resistance		Solvent Resistance	Relative Adhesion		Application Ideas
					Minutes Hours	Days Weeks		HSE	LSE	
3M™ VHB™ Tapes										
4926 4936 4941 4956	15 (0.4) 25 (0.64) 45 (1.1) 62 (1.6)	55# DK 55# DK 55# DK 55# DK	Gray, closed-cell acrylic foam carrier. Conformable. Plasticizer resistant. UL 746C.	Acrylic	300°F (149°C)	200°F (93°C)	High	High	Med	Bond and seal polycarbonate lens.
5915 5930 5952 5962	16 (0.4) 32 (0.8) 45 (1.1) 62 (1.6)	Red PE & PCK Red PE & PCK Red PE & PCK Red PE & PCK	Dark gray, closed-cell acrylic foam carrier. Conformable. UL 746C.	Modified Acrylic	300°F (149°C)	250°F (121°C)	High	High	Med	Bonds to a variety of plastics and powder coat painted surfaces.
4611 4646	45 (1.1) 25 (0.64)	Red PE Red PE	Dark gray, closed-cell acrylic foam carrier. UL 746C.	Acrylic	450°F (232°C)	300°F (149°C)	High	High	Low	Pre-powder coat paint applications: hat channels and stiffeners.
4920 4930 4950	15 (0.4) 25 (0.64) 45 (1.1)	55# DK 55# DK 55# DK	White, closed-cell acrylic foam carrier. All-purpose adhesive. UL 746C.	Acrylic	300°F (149°C)	200°F (93°C)	High	High	Low	Attach stiffeners.
4945	45 (1.1)	55# DK	White, closed-cell acrylic foam carrier. Plasticizer resistant. UL 746C.	Acrylic	300°F (149°C)	200°F (93°C)	High	High	Med	Attach vinyl trim. Bond vinyl extrusions.
4946	45 (1.1)	Clear PE	Film liner version of 4945. UL 746C.							
4905 4910	20 (0.5) 40 (1.0)	Red PE Red PE	Clear, acrylic construction for joining transparent material. UL 746C.	Acrylic	300°F (149°C)	200°F (93°C)	High	High	Low	Seal glass.
4932 4952	25 (0.64) 45 (1.1)	55# DK 55# DK	White, closed-cell acrylic foam carrier.	LSE	200°F (93°C)	160°F (71°C)	High	High	High	Bond polypropylene and polystyrene.
3M™ VHB™ Adhesive Transfer Tapes										
F9460PC F9469PC F9473PC	2.0 (0.05) 5.0 (0.13) 10 (0.25)	58# PCK 58# PCK 58# PCK	Clear adhesive transfer tape. UL 746C.	100 MP	500°F (260°C)	300°F (149°C)	High	High	Low	Bond metal trim.
3M™ Double Coated Tapes										
9495LE	6.7 (0.17)	58# PCK	300LSE adhesive on both sides of polyester carrier for low surface energy surfaces.	300LSE	300°F (149°C)	200°F (93°C)	Med	High	High	Plastic extrusion attachment.
9628FL 9629FL	2.0 (0.05) 4.0 (0.10)	PET Film	Quick bonding, high shear and peel strengths.	360	350°F (177°C)	200°F (93°C)	Med	High	High	Bond most LSE and HSE materials.
9500PC	5.6 (0.14)	61.5# PCK	High holding with a wide variety of surfaces; polyester carrier.	350	350°F (177°C)	250°F (121°C)	High	High	High	LED lens attachment.
3M™ Adhesive Transfer Tapes										
467MP 468MP	2.0 (0.05) 5.0 (0.13)	58# PCK	High performance, high temperature.	200MP	400°F (232°C)	300°F (149°C)	High	High	Low	General joining. Industry standard for graphic attachment and die-cut parts.
9471LE 9472LE	2.0 (0.05) 5.0 (0.13)	58# PCK	High strength to plastics.	300LSE	300°F (149°C)	200°F (93°C)	High	High	High	Bonds graphics to powder coatings, LSE plastics and oily metal.
9626 9627	2.0 (0.05) 5.0 (0.13)	Glassine	Quick bonding, high shear and peel strengths.	360	350°F (177°C)	200°F (93°C)	Med	High	High	Bond most LSE and HSE materials.

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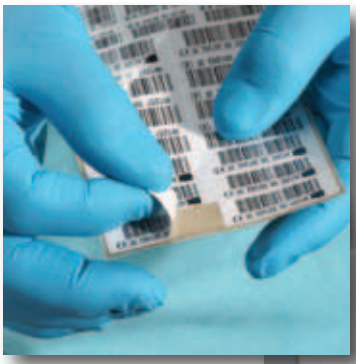
3M™ Performance Label Materials

Optimum combinations of adhesives and facestocks perform reliably in challenging conditions:

- Tight radiuses and small diameters
- Hard-to-stick LSE materials
- Flexible surfaces
- Harsh conditions of sterilization and cryogenics
- Exposure to liquids



22 Post sterilization blood bag identity

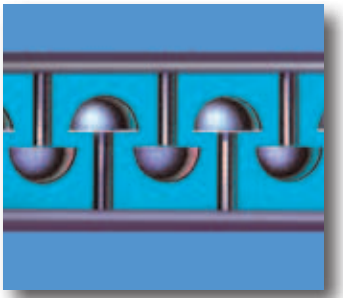
23 Equipment information and ratings

24 Vial, tube, and syringe tracking

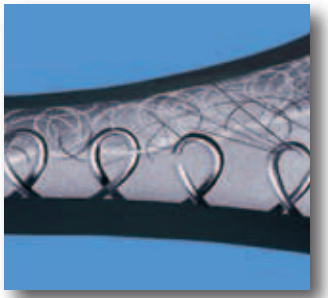
25 Tamper-indicating labels

3M™ Reclosable Fasteners

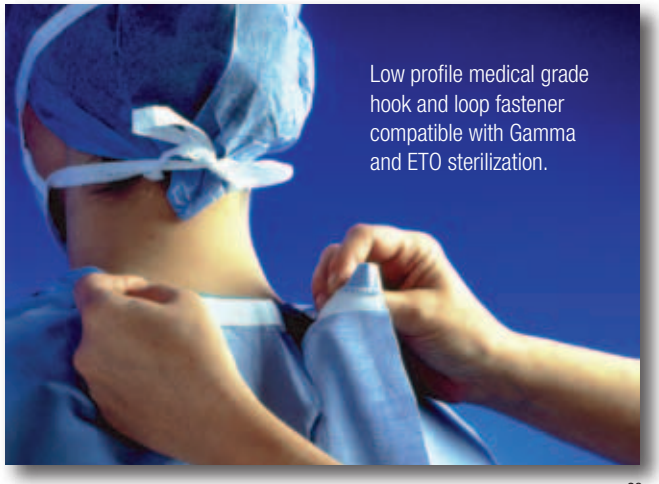
3M™ Dual Lock™ Fasteners contain hundred of mushroom-shaped stems that snap together to form a secure attachment. With 3M™ Hook and Loop Fasteners. stiff hooks mesh with pliable loops for repeated quick and easy closures and openings.



26 3M™ Dual Lock™ Reclosable Fastener



27 3M™ Hook and Loop Fastener



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3M™ Anti-Fog Polyester Film

For disposable surgical face masks and full face shields, this clear hydrophilic polyester film protects eyes and face against splashes. Resists fogging from wearer's breath and changing environmental conditions.

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3M™ Performance Label Materials

Product	Adhesive	Facestock	Liner
Vials, Tubes, and Bottles			
7000	320	60# White High Gloss Paper	43# DK
7004	300	60# White High Gloss Paper	43# DK
FP018902	P1410	2.6 mil White Polypropylene T2S	50# SC
Syringes			
FP108	P1410	2.0 mil Clear PP TC	44# PK
Medical/Laboratory Devices and Equipment			
7871	350	2.0 mil White Polyester TC	55# DK
7872	350	PET, Platinum TC	55# DK
7816	310	2.0 mil White Polyester TC	55# DK
Sterilization			
7000	320	60# White High Gloss Paper	43# DK

Product	Adhesive	Facestock	Liner
Cryogenics			
7831	400	1.0 mil Clear PET TC	55# DK
FP016102	F2201	2.3 mil White PP TC	50# SC
Bags			
PB009160			
FP035402	P1650	3.3 mil White Polyolefin	50# SC
Tamper-indicating			
7011	320	32# Coated White Paper	43# DK
7384	300	2.0 mil Silver VOID PET TC	55# DK
7866/7381	300	2.0 mil White VOID PET TC	55# DK
FMV01202	P1410	2.0 mil Silver Triangle PE	50# SC

3M™ Hook and Loop Fasteners

Product SJ#		Fastener Material	Closure Life	Adhesive Type	Liner	Engaged Thickness in. (mm)	Operating Temperature	Other Features
Hook	Loop							
3522	3523	Nylon	5,000	Acrylic	Film	0.15 (3.8)	158°F (70°C)	Plasticizer resistant adhesive.
3526N	3527N	Nylon	5,000	Synthetic rubber	Film	0.15 (3.8)	120°F (49°C)	High performance rubber adhesive.
3530	3531	Nylon	5,000	Synthetic rubber	Film	0.15 (3.8)	100°F (37°C)	General purpose rubber adhesive.
3572	3571	Nylon	5,000	Acrylic	Film	0.15 (3.8)	200°F (93°C)	High performance acrylic adhesive.
3576	3577	Polyester	1,000	Acrylic	Film	0.15 (3.8)	200°F (93°C)	Resists weight gain from moisture.
Thin								
3506	3507	Polypropylene/ Polyester	50	Acrylic	Paper	0.04 (0.09)	120°F (48°C)	High shear strength, 75% lower profile than standard hook and loop.

3M™ Low Profile Fasteners (ISO 10993 clinical summaries available upon request)

Product	Fastener Material	Closure Life	Liner	Thickness mils (mm)	Heat Sealable	Print-able	Steril-ization	Conform-able	Other Features
7330 White Loop	Nylon knit loop with polyethylene backing	<50	–	9.8 (0.25)	√	√[1]	Gamma & EtO	High	Latex-free, low linting, easy open/high shear strength.
7334 White Hook	100% Polyolefin	<50	–	19 (0.5)	√	√[1]	Gamma[2] & EtO	High	
7331 White Loop	Same as 7330 with high tack synthetic rubber PSA	<50	54# Paper	14 (0.4)	–	–	Gamma & EtO	High	Latex-free adhesive, ISO 10993 summary available, easy open/high shear strength.
7335 White Hook	Same as 7334 with high tack synthetic rubber PSA	<50	54# Paper	23 (0.6)	–	–	Gamma[2] & EtO	High	

3M™ Dual Lock™ Reclosable Fasteners

Product SJ# (250/400/170)	Fastener Material	Closure Life	Adhesive Type	Liner	Engaged Thickness in. (mm)	Operating Temperature	Other Features
3540 / 3541 / 3542	Polypropylene	1,000	Rubber	Black	0.23 (5.7)	120°F (49°C)	Good for LSE bonding.
3550 / 3551 / 3552	Polypropylene	1,000	Acrylic	Black	0.23 (5.7)	200°F (93°C)	General purpose acrylic foam adhesive.
3560 / 3561 / 3562	Polypropylene	1,000	Acrylic	Clear	0.23 (5.7)	220°F (104°C)	High performance acrylic foam adhesive, clear for color matching.
Low Profile							
4570	Polypropylene	100	Acrylic	Clear	0.105 (2.7)	158°F (70°C)	LSE adhesive.
4580	Polypropylene	100	Acrylic	Clear	0.110 (2.8)	220°F (104°C)	High performance acrylic foam adhesive, clear for color matching.

3M™ Anti-Fog Polyester Film

Product Number	Typical Applications	Polyester Film Thickness	Fogging Properties	Typical Optical Properties (T/H/C)	Conform-ability	Printable Surface	Maximum Roll Width	Maximum Roll Length
9962	Disposable surgical face masks, full face shields, or other environmental protective equipment.	3.9 mils (0.10 mm)	None at 131°F (55°C)	92% Light Transmission 1.4% Haze Clarity > 93% Clarity	Flexible	Both Sides	49 inches (122 cm)	2600 LY (2377 LM)
9960		6.8 mils (0.17 mm)		90% Light Transmission 2.5% Haze Clarity > 92% Clarity	Rigid		49 inches (122 cm)	1600 LY (1463 LM)

[1]Pre-treatment to film required (e.g. corona treatment) prior to printing. [2]Gamma irradiation resistance is a maximum dosage of 45 kiloGrays.

NOTE: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

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