

POLYKEN[®]

Medical Adhesive Tapes Product Guide



POLYKEN®

Polyken has provided highly engineered pressure-sensitive adhesive tape solutions for medical OEMs and converters for decades. Our extensive and innovative selection of core products are designed to withstand EtO and gamma sterilization as well as the rigors of medical environments.

Polyken deploys a broad range of carriers, liners, and adhesive technologies designed to meet the needs of converters, OEMs, medical professionals, and patients alike.

Applications for Polyken double-coated, single-coated, and transfer tapes include:

- Direct skin contact (short or long-term)
- Electrodes and defibrillator pads
- Sensors and pulse oximetry
- Surgical and incise drapes
- Diagnostic test strips
- Medical device assembly, attachment, and overlay
- Wound care island dressings
- Ostomy products

When lives are on the line, Polyken tapes offer quality, consistency, and ease of use.

Polyken provides **More Than Adhesives ... Answers**



Polyken can combine vast technical expertise at our Middlesex, NJ and Riverhead, NY locations with design and manufacturing resources to produce a solution to meet your application needs.

Coating & Converting Capabilities

Coating Line: Max usable width 60"

Coating Methods: Reverse Roll, Knife-Over-Roll

Coating Type: Direct Coat, Transfer Coat

Adhesives: Acrylic, Rubber, Silicone, and Custom Formulations; Solvent, Emulsion, Hot Melt;
Coat Weights: 0.7 to 7.5 mils

ID Core: 3"

Maximum Diameter: 24"

Typical Log Sizes: Double-Coated: 250 lyds, Foams: 100 to 325 lyds, Films: 250 lyds

Materials Expertise

Substrates: Polyester (PET): 0.25 mil to 5 mils, Tissue, Foam (Cross-linked PE): 1/32" to 1/8", Polyurethane (PU), Polyethylene (PE), Non-woven and Woven Fabric, and Custom Materials

Release Liners: 60 to 140 lb basis weight Polycoated Paper, 40 to 80 lb basis weight Super Calendered Kraft, and PET, and BOPP Polyliners

Polyken is a trusted source for high performance, direct-skin contact acrylic, rubber, and silicone adhesive formulations for medical applications. Our team works constantly to develop new medical adhesive technologies to suit OEMs, converters, medical professionals, and patients. The following selection of off-the-shelf adhesives include direct-skin contact adhesives for low trauma and short-, medium-, and long-term wear durations. These are used on a variety of our core medical tape products and can be deployed on customized pressure-sensitive tape constructions to meet the needs of your unique application.



| Adhesive Code | Adhesion to Substrates | | | | | | Key Attributes | | | | | Polyken Medical Tapes—Core Offering | | | |
|-----------------|------------------------|------|------|------|------|------|----------------|----------|----------|---------------|-------------|-------------------------------------|---|---------------------|---------------------|
| | STEEL | ABS | PC | LDPE | HDPE | PP | Tack | RT Shear | HT Shear | Wear Duration | Bio Testing | Transfer Tapes | Double Coated Tapes | Foam Tapes | Single Coated Tapes |
| Acrylic | | | | | | | | | | | | | | | |
| M102 | High | High | High | Low | Med | Low | High | Low | Low | Long | C, I, S | 3558B | | 3585B | 3570A, 3614C |
| M105 | High | High | High | Med | Med | High | High | High | Low | NR | C, I | | 2911B(AS) | | |
| M106 | Med | Med | Med | Low | Low | Low | Med | Med | Low | Short | C, I, S | | 1393A | | |
| M107 | Med | Med | Med | Low | Low | Med | High | High | Med | Short | C, I | | 2911B(LS) | | |
| M108 | Med | Med | Med | Low | Low | Med | High | High | Med | Short | C, I, S | | 2916P, 3493V, 3493Y, 3578D, 2932O, 2932P, 3578C | | |
| M109 | High | High | High | Med | Med | Low | High | High | Low | Med | C, I, S | 1731D, 3586B, 1731L | 2908I, 2916B, 2932J, 2211E, 2211D, 3589A, 3577C(AS) | 2203R, 2328F, 3614B | |
| M110 | High | High | High | Low | Med | Low | High | Low | Low | Long | C, I, S | | 3585A, 3355H | 3628A, 3614A | |
| M111 | Med | Med | Med | Med | Med | NR | High | Med | Low | Short | C, I | | 2108K, 2108L, 2108G | | |
| M116 | Med | Med | Med | Low | NR | Low | Med | High | Low | Short | C, I, S | 3599A, 3599B | 3601A | | 3598A |
| M118 | High | High | High | Med | Med | Low | High | Low | Low | Med | C, I, S | 3500B | | | |
| M119 | High | High | High | Med | Med | Low | High | Med | Med | Long | C, I | | 3428M | | 3428R |
| M121 | Med | Med | Med | Low | Low | NR | High | High | Low | Long | C, I | 3599D, 3599E | 3481A | | 3598B |
| M123 | Med | Med | Med | Med | NR | High | Med | Low | Low | Short | C, I, S | | 33M6H | | |
| M129 | Med | Med | Med | Low | Low | Low | Med | High | Med | Short | C, I | 9728, 9730 | 9254M, 9256M | | |
| M130 | Low | Low | Low | Low | Low | Low | Med | Low | Low | Short | C, I | | 8311M(LS) | | |
| M131 | Low | Low | Low | Low | Low | Low | High | High | Med | Short | C, I | | 8311M(AS) | | |
| Rubber | | | | | | | | | | | | | | | |
| M104 | High | High | High | Low | Low | NR | Med | Low | Low | Short | C, I | 3426A | | | 3395A, 3426B, 2696P |
| M117 | High | High | High | Med | Med | Med | High | High | low | Med | C, I, S | | 3577C(LS) | | |
| Silicone | | | | | | | | | | | | | | | |
| M132 | Med | Med | Med | Med | Med | Med | Low | High | High | Short | C, I | 9002, 9005 | | | |

C = Non-Cytotoxic, I = Non-Irritating, S = Non-Sensitizing

Transfer Tapes

Transfer tapes are adhesive tapes that do not have an internal support or carrier—simply a pressure sensitive adhesive and a release liner. These are commonly used for mounting and laminating electrical components, medical device assembly and mounting, sensor components, pulse oximetry, and patient monitoring applications. Other uses include laminating and bonding films, foams, and fabrics as well as packaging applications such as polybag closure. Our Polyken transfer tape portfolio includes adhesives designed for a broad range of surfaces (including patient skin) as well as a full range of wear duration for both short and long-term adhesion.

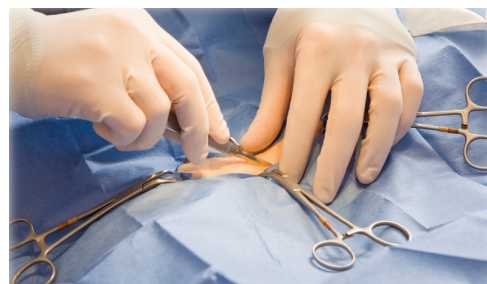


| Product | Adhesive | Liner | Liner Thickness mils mm | Adhesive Thickness mils mm | Peel Adhesion oz/in N/cm | Bio Testing | Fluid Resistance | Tack | Wear Duration |
|---------|-------------------------------|----------------|-------------------------------|----------------------------------|--------------------------------|-------------|------------------|------|---------------|
| 3426A | Rubber (M104) | 60# SB SCK | 1.8 0.046 | 3.5 0.089 | 170 18.60 | C, I | Low | High | Short |
| 3500B | Acrylic (M118) | 80# BL SCK | 2.0 0.051 | 4.5 0.114 | 100 10.94 | C, I | High | High | Med |
| 3558B | Long-Term Wear Acrylic (M102) | 80# BL SCK | 4.5 0.114 | 4.5 0.114 | 140 15.32 | C, I, S | High | High | Long |
| 3599A | Acrylic (M116) | 4 mil PET Film | 4.0 0.102 | 1.1 0.028 | 64 7.00 | C, I, S | High | Med | Short |
| 3599B | Acrylic (M116) | 76# BL KFT | 5.9 0.150 | 1.1 0.028 | 64 7.00 | C, I, S | High | Med | Short |
| 3599D | Acrylic (M121) | 76# BL KFT | 5.6 0.142 | 1.1 0.028 | 58 6.35 | C, I | High | High | Short |
| 3599E | Acrylic (M121) | 4 mil PET Film | 4.0 0.102 | 1.1 0.028 | 50 5.40 | C, I | High | High | Short |
| 9728 | Acrylic (M129) | 80# KFT | 4.0 0.102 | 2.0 0.051 | 60 6.56 | C, I | High | Med | Short |
| 9730 | Acrylic (M129) | 80# KFT | 4.0 0.102 | 3.0 0.076 | 70 7.66 | C, I | High | Med | Short |
| 9002 | High Temp Silicone (M132) | 2 mil PET | 2.0 0.051 | 2.0 0.051 | 43 4.70 | C, I | High | Low | Short |
| 9005 | High Temp Silicone (M132) | 2 mil PET | 2.0 0.051 | 5.0 0.127 | 65 7.11 | C, I | High | Low | Short |

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Double-Coated Tapes

Double-coated tapes feature a pressure-sensitive adhesive coated to both sides of a “carrier,” a material that provides support and structure to the adhesive. Double-coated tapes are used in the medical industry for many applications, ranging from medical device assembly and mounting, to diagnostic test strips, to surgical drape assembly and attachment. Uses include permanent or temporary mounting and attachment, laminating and bonding, polybag sealing, and more. Polyken double-coated tapes include formulations designed for strong bonds to films, foams, plastics, and fabrics, as well as to patient skin.



| Product | Carrier/Thickness | | Liner Side | | | Air Side | | | Bio Testing | Fluid Resistance | Tack | Wear Duration | |
|-------------------------|-------------------|-------------------------|--------------|----------------------------|----------------------------|--------------|----------------------------|----------------------------|--------------|------------------|------|---------------|-------|
| | Liner | Liner Thickness mils/mm | Adhesive | Adhesive Thickness mils/mm | Peel Adhesion oz/in / N/cm | Adhesive | Adhesive Thickness mils/mm | Peel Adhesion oz/in / N/cm | | | | | |
| PET Film Carrier | | | | | | | | | | | | | |
| 1393A | 0.5 mil PET | 76# BL KFT | 5.6 0.142 | Acrylic (M106) | 1.3 0.033 | 48 5.25 | Acrylic (M106) | 1.3 0.033 | 38 4.16 | C, I, S | High | High | Short |
| 1731D | 0.5 mil PET | 76# BL KFT | 5.5 0.140 | Acrylic (M109) | 1.4 0.036 | 145 15.86 | Acrylic (M109) | 1.4 0.036 | 130 14.22 | C, I, S | High | High | Med |
| 2911B | 0.5 mil PET | 74# BL KFT | 5.9 0.150 | Acrylic (M107) | 1.3 0.033 | 50 5.47 | Acrylic (M105) | 1.2 0.030 | 45 4.92 | C, I | Med | Med | Short |
| 33M6H | 0.5 mil PET | 60# BL SCK | 3.5 0.089 | Acrylic (M123) | 1.9 0.048 | 100 10.94 | Acrylic (M123) | 1.9 0.048 | 90 9.85 | C, I, S | High | High | Med |
| 3481A | 0.5 mil PET | 76# BL KFT | 5.6 0.142 | Acrylic (M121) | 1.3 0.033 | 60 6.56 | Acrylic (M121) | 1.3 0.033 | 50 5.47 | C, I, S | High | High | Long |
| 3586B | 0.5 mil PET | 60# BL SCK | 3.4 0.086 | Acrylic (M109) | 1.2 0.030 | 100 10.94 | Acrylic (M109) | 1.2 0.030 | 110 12.03 | C, I, S | High | High | Med |
| 3601A | 0.5 mil PET | 74# PC KFT | 5.5 0.140 | Acrylic (M116) | 1.2 0.030 | 65 7.11 | Acrylic (M116) | 1.2 0.030 | 65 7.11 | C, I, S | Med | Med | Short |
| 8311M Diff | 0.5 mil PET | 74# PC KFT | 5.9 0.150 | Acrylic (M130) | 1.0 0.025 | 40 4.38 | Acrylic (M131) | 1.2 0.030 | 32 3.50 | C, I | Med | Med | Short |
| 9254M-55 | 0.5 mil PET | 55# PC KFT | 3.2 0.081 | Acrylic (M129) | 1.3 0.033 | 44 4.81 | Acrylic (M129) | 1.3 0.033 | 44 4.81 | C, I | High | Med | Short |
| 9254M-74 | 0.5 mil PET | 74# PC KFT | 5.5 0.140 | Acrylic (M129) | 1.3 0.033 | 44 4.81 | Acrylic (M129) | 1.3 0.033 | 44 4.81 | C, I | High | Med | Short |
| 9256M-55 | 0.5 mil PET | 55# PC KFT | 3.2 0.081 | Acrylic (M129) | 2.0 0.051 | 56 6.13 | Acrylic (M129) | 2.0 0.051 | 56 6.13 | C, I | High | Med | Short |
| 9256M-74 | 0.5 mil PET | 74# PC KFT | 5.5 0.140 | Acrylic (M129) | 2.0 0.051 | 56 6.13 | Acrylic (M129) | 2.0 0.051 | 56 6.13 | C, I | High | Med | Short |
| Other Carriers | | | | | | | | | | | | | |
| 3428M | 1.0 mil PU | 80# SB SCK | 4.2 0.107 | Acrylic (M119) | 2.1 0.053 | 110 12.03 | Acrylic (M119) | 2.1 0.053 | 100 10.94 | C, I | High | Med | Long |
| 1731L | 7 lb Tissue | 76# BL KFT | 5.5 0.140 | Acrylic (M109) | 1.4 0.036 | 140 15.32 | Acrylic (M109) | 1.3 0.033 | 120 13.13 | C, I, S | High | High | Med |

Note: Please see the Foam Tapes tab for our Double-Coated Foam Tape options.
C = Non-Cytotoxic, I = Non-Irritating, S = Non-Sensitizing

Foam tapes offer unique benefits versus other carriers in terms of softness, conformability, and flexibility to ensure maximum patient comfort. Polyken offers both single and double-coated foam tapes to suit medical applications, including electrodes (EKG, EEG, TENS), defibrillator pads, medical device mounting and assembly, medical device attachment, and more. Featuring adhesive systems designed for both short- and long-term wear patient applications, Polyken foam tapes are available in multiple thickness and release liner options to suit the needs of the particular application.



See Reverse for Double-Coated Foam Tapes

| Product | Adhesive | Liner | Liner Thickness mils mm | Adhesive Thickness mils mm | Peel Adhesion oz/in N/cm | Bio Testing | Tack | Wear Duration |
|----------------------------|--|-----------------|-------------------------------|----------------------------------|--------------------------------|-------------|------|---------------|
| 1/8" PE Foam—White | | | | | | | | |
| 2108K | Acrylic (M111) | 2 mil BOPP Film | 2.0 0.051 | 2.0 0.051 | 110 12.03 | C, I | Med | Short |
| 2108L | Acrylic (M111) | 2 mil PET Film | 2.0 0.051 | 2.0 0.051 | 120 13.13 | C, I | Med | Short |
| 2908I | Acrylic (M109) | 3 mil PET Film | 3.0 0.076 | 1.5 0.038 | 70 7.66 | C, I, S | High | Med |
| 1/16" PE Foam—White | | | | | | | | |
| 2108G | Acrylic (M111) | 2 mil PET Film | 2.0 0.051 | 0.8 0.02 | 82 8.97 | C, I | Med | Short |
| 2916B | Acrylic (M109) | 96# BL PC KFT | 6.8 0.173 | 1.6 0.041 | 110 12.03 | C, I, S | High | Med |
| 2916P | Acrylic (M108) | 96# BL PC KFT | 6.8 0.173 | 2.0 0.051 | 100 10.94 | C, I, S | High | Med |
| 3493V | Acrylic (M108) | 74# BL PC KFT | 5.6 0.142 | 2.0 0.051 | 110 12.03 | C, I, S | High | Med |
| 3493Y | Acrylic (M108) | 96# BL PC KFT | 6.8 0.173 | 2.0 0.051 | 110 12.03 | C, I, S | High | Med |
| 3578D | Acrylic (M108) | 74# BL PC KFT | 5.6 0.142 | 2.0 0.051 | 90 9.85 | C, I, S | High | Med |
| 3585A | High Moisture-Resistant Acrylic (M110) | 74# BL PC KFT | 5.6 0.142 | 2.0 0.051 | 80 8.75 | C, I, S | Med | Long |
| 3585B | Long-Term Wear Acrylic (M102) | 74# BL PC KFT | 5.6 0.142 | 2.0 0.051 | 80 8.75 | C, I, S | Med | Long |
| 1/32" PE Foam—White | | | | | | | | |
| 2932J | Acrylic (M109) | 96# BL PC KFT | 6.8 0.173 | 2.2 0.056 | 90 9.85 | C, I, S | High | Med |
| 2932O | Acrylic (M108) | 42# SB SCK | 2.5 0.064 | 2.0 0.051 | 100 10.94 | C, I, S | High | Med |
| 2932P | Acrylic (M108) | 96# BL PC KFT | 6.8 0.173 | 2.0 0.051 | 90 9.85 | C, I, S | High | Med |
| 3355H | High Moisture-Resistant Acrylic (M110) | 96# BL PC KFT | 6.8 0.173 | 3.0 0.076 | 80 8.75 | C, I, S | Med | Long |
| 3578C | Acrylic (M108) | 74# BL PC KFT | 5.6 0.142 | 2.0 0.051 | 75 8.21 | C, I, S | High | Med |

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| Product | Liner Type | Liner Thickness mils/mm | Liner Side | | | Air Side | | | Bio Testing | Tack | Wear Duration | Conformability |
|----------------------------|-------------------|----------------------------|-------------------|-------------------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|-------------|------|---------------|----------------|
| | | | Adhesive Type | Adhesive Thickness mils/mm | Peel Adhesion oz/in / N/cm | Adhesive | Adhesive Thickness mils/mm | Peel Adhesion oz/in / N/cm | | | | |
| 1/16" PE Foam—White | | | | | | | | | | | | |
| 2211E | 96# BL KFT | 7.0 0.178 | Acrylic (M109) | 1.4 0.036 | 200 21.88 | Acrylic (M109) | 1.4 0.036 | 200 21.88 | C, I, S | High | Med | High |
| 3589A | 60# SB SCK | 3.5 0.089 | Acrylic (M109) | 1.4 0.036 | 160 17.50 | Acrylic (M109) | 1.1 0.028 | 160 17.50 | C, I, S | High | Med | High |
| 1/32" PE Foam—White | | | | | | | | | | | | |
| 2211D | 76# BL KFT | 5.8 0.147 | Acrylic (M109) | 1.4 0.036 | 190 20.79 | Acrylic (M109) | 1.4 0.036 | 190 20.79 | C, I, S | High | Med | High |
| 3577C | 4 mil PET Film | 4.0 0.102 | Rubber (M117) | 2.5 0.064 | 210 22.97 | Acrylic (M109) | 2.5 0.064 | 210 22.97 | C, I, S | High | Med | High |

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Polyken single-coated tapes include a variety of film, woven, and laminate carriers to perform in a variety of medical applications. Ideal for medical device assembly and attachment, electrode and patient monitoring, pulse oximetry, device overlay, wound covering and island dressing, incise drapes, drape attachment, and more. Our Polyken single-coated medical tape portfolio includes both short- and long-term wear adhesives for direct skin attachment.



| Product | Carrier | Adhesive | Liner Type | Liner Thickness mils/mm | Adhesive Thickness mils/mm | Peel Adhesion oz/in / N/cm | Bio Testing | Fluid Resistance | Tack | Conformability | Wear Duration | Breathable | Printable |
|---------------------------|---|--|---------------|----------------------------|-------------------------------|-------------------------------|-------------|------------------|------|----------------|---------------|------------|-----------|
| Film Carriers | | | | | | | | | | | | | |
| 3395A | 1 mil White BOPP Film | Rubber (M104) | 60# SB SCK | 3.6 0.091 | 1.8 0.046 | 120 13.13 | C, I | Low | High | High | Short | No | Yes |
| 3426B | 4 mil White PE Film | Rubber (M104) | 60# SB SCK | 4.0 0.102 | 1.8 0.046 | 150 16.41 | C, I | Low | High | High | Short | No | Yes |
| 2203R | 3 mil Clear Matte PE Film | Acrylic (M109) | 60# SB SCK | 3.5 0.089 | 1.2 0.030 | 140 15.32 | C, I, S | High | High | High | Med | No | Yes |
| 3598A | 1 mil Clear PET Film | Acrylic (M116) | 74# BL PC KFT | 5.9 0.150 | 1.4 0.036 | 58 6.35 | C, I, S | High | Med | Med | Short | No | Yes |
| 3598B | 1 mil Clear PET Film | Acrylic (M121) | 74# BL PC KFT | 5.9 0.150 | 1.4 0.036 | 48 5.25 | C, I | High | High | Med | Long | No | Yes |
| 3428R | 1 mil Clear PU Film | Acrylic (M119) | 80# SC KFT | 4.2 0.107 | 2.1 0.053 | 60 6.56 | C, I, S | High | Med | High | Long | No | Yes |
| 3628A | 1 mil Clear PU Film | High Moisture-Resistant Acrylic (M110) | 80# SC KFT | 4.2 0.107 | 3.0 0.076 | 90 9.85 | C, I, S | High | High | High | Long | Yes | Yes |
| Non-woven Carriers | | | | | | | | | | | | | |
| 3614A | 1.3 oz/sy White Spunlace Non-woven | High Moisture-Resistant Acrylic (M110) | 72# PC KFT | 5.6 0.142 | 1.4 0.036 | 20 2.19 | C, I, S | High | High | High | Short | Yes | Yes |
| 3614B | 1.3 oz/sy White Spunlace Non-woven | Acrylic (M109) | 72# PC KFT | 5.6 0.142 | 2.0 0.051 | 80 8.75 | C, I, S | High | High | High | Med | Yes | Yes |
| 3614C | 1.3 oz/sy White Spunlace Non-woven | Long-Term Wear Acrylic (M102) | 72# PC KFT | 5.6 0.142 | 2.0 0.051 | 48 5.25 | C, I, S | High | High | High | Long | Yes | Yes |
| 2328F | 2.4 oz/sy White Spunlace Non-woven | Acrylic (M109) | 96# BL KFT | 6.8 0.173 | 1.8 0.046 | 130 14.22 | C, I, S | Low | High | High | Med | Yes | Yes |
| 3570A | 2.4 oz/sy White Spunlace Non-woven | Long-Term Wear Acrylic (M102) | 80# SC KFT | 4.2 0.107 | 4.5 0.114 | 110 12.03 | C, I, S | Low | High | High | Long | Yes | Yes |
| Laminate Carriers | | | | | | | | | | | | | |
| 2696P | Flesh Tricot Laminated to 1 mil White BOPP Film | Rubber (M104) | 60# SB SCK | 3.6 0.091 | 1.8 0.046 | 150 16.41 | C, I | Low | High | Med | Short | No | Yes |

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