

Product Selection Guide

MEDICAL & DIAGNOSTICS Tapes & Laminates



For over 60 years Mactac[®] has been providing pressure-sensitive adhesive solutions for the industrial, medical, label and graphics markets. Our innovative product design and industry leading formulation expertise have positioned Mactac as a trusted brand for decades.

Mactac's parent company, LINTEC, is a leading global manufacturer of engineered adhesive materials. LINTEC materials are used in window films, interior-finish mounting, automotive security labeling and semi-conductors.

With LINTEC's guidance, Mactac's US operations have expanded to include several new facilities.

Introducing



Sustainability - Processes & People

With guidance under the LINTEC Group, we aim for opportunities to evaluate and expand Mactac's sustainability program to further reduce our footprint, inspire employees and showcase the value we provide to customers in their quest to meet the environmental needs of end-users.

Currently, Mactac is on a CO2 reduction journey across all sites.

- Goal - 30% reduction in CO2 emissions by 2030
- Protecting the natural environment through CO2 reduction isn't the whole story - when we look at sustainability, we need to look at both environmental and social activities.

Recent Milestones

Mactac is the first pressure-sensitive adhesive company to have products listed on the USDA's bio-preferred website.



Mactac is a leader in solvent-free coating technologies, opting to bring lower energy and lower environmental impact solutions to the North American market.

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Tape Selection Process

In order to select the best tape for your application it is critical to define these key performance requirements:

1. SUBSTRATE

Surface Texture

The texture of a surface can impact adhesive performance. Rough or textured surfaces can create adhesion challenges. Heavier coat weights tend to perform better on textured surfaces, and softer adhesives have better flow characteristics.

Surface Energy

The surface energy of a substrate will affect the adhesive's ability to wet out. Surface energy is measured in dynes/cm and the dyne level is the actual reading of the critical surface tension. The chart below compares the relative surface energy of common substrates.

Substrate Surface Energy Dynes/cm

HIGH 250 - 1100 Dynes/cm	Copper Aluminum Zinc Tin Lead Stainless Steel Glass	MEDIUM 42-50 Dynes/cm	Kapton Phenolic Nylon Alkyd Enamel Polyester Epoxy Polyurethane	MEDIUM 37-39 Dynes/cm	ABS Polycarbonate PVC Noryl Acrylic	LOW <37 Dynes/cm	PVA Polystyrene Acetal EVA Polyethylene Polypropylene Teflon
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Surface Contamination

Adhesive performance is dependent on surface contact, in order to maximize adhesive contact be sure that the substrate is dry and free of contaminants. Moisture, grease, silicone and oils can negatively impact adhesive performance.

2. ENVIRONMENTAL EXPOSURE

Application Temperature

The temperature of the substrate and the adhesive when applied. General minimum application temperature is 50°F.

Service Temperature

Temperature that the adhesive will be exposed to during the life of the finished product.

UV Exposure

Direct sunlight or UV rays can cause adhesives to age, become brittle or discolor.

Exposure to Chemicals

Solvents, chemicals and fuels can impact adhesive performance.

Tape Selection Process - continued

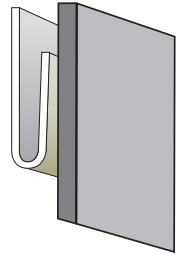
3. REQUIRED ADHESION LEVEL

The three common test methods to determine adhesive performance characteristics.

Peel Adhesion

Measures the force required to remove a PSA tape from a substrate at a controlled angle. The strength of the bond is determined by material's surface energy and the chemical composition of the adhesive.

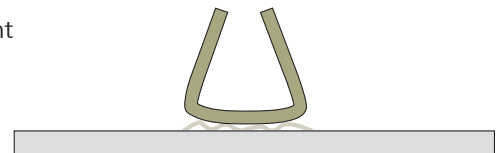
- Peel Angle - either 90 or 180 degrees
- Substrate - Stainless Steel
- Peel Rate - 12 inches/min
- Test Environment - 72F/50% RH
- Sample Dimensions - 1.0" wide



Quick Tack

Refers to the properties that allow a PSA to adhere to a surface under very light pressure. Determined by the ability of the adhesive to quickly wet out on the surface contacted.

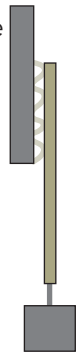
- Substrate - Stainless Steel



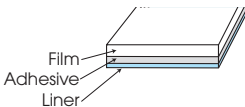
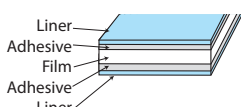
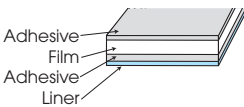
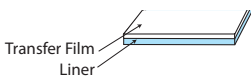
Shear Adhesion/Cohesion

Refers to the internal strength of the adhesive and its ability to resist splitting when external shear forces are applied in the same plane as the face or the carrier. Results are reported in time required to cause failure.

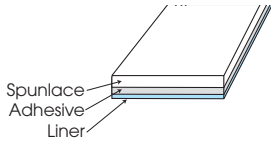
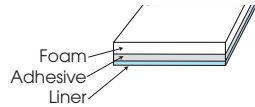
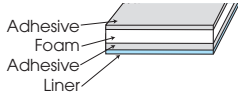
- Substrate - Stainless Steel
- Test environment - Temperature and humidity
- Shear direction - Vertical/horizontal



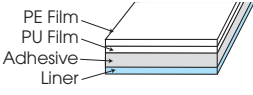
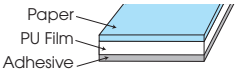
Healthcare - Popular Materials

					Coat Weight Mils	Conformable	Breathable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
Product Number	Carrier	Adhesive Type	Liner	Product Construction							
FILMS Single-Coated											
TM7100 Custom	2.5 mil White Gloss Polyethylene Film	899 HM Rubber	40# SCK		1.0	✓		✓	✓	✓	✓
TM7101 Custom	2.5 mil Taffeta Embossed Sheer Polyethylene Film	899 HM Rubber	40# SCK		1.0	✓		✓	✓	✓	✓
TM7102 Custom	3.0 mil Tan Matte Polyethylene	899 HM Rubber	40# SCK		1.0	✓		✓	✓	✓	✓
FILMS Double-Coated Acrylic											
TM8500	0.5 mil PET Film	160 Acrylic	2.0 mil PET/ 2.0 mil PET*		1.2/1.2			✓	✓	✓	
TM8510	0.5 mil PET Film	150 Acrylic	72# PCK		1.8/1.8			✓	✓	✓	
TM8520	0.5 mil PET Film	150 Acrylic	72# PCK		2.4/2.4			✓	✓	✓	
TM8610	0.5 mil PET Film	160 Acrylic	72# PCK		1.2/1.2			✓	✓	✓	
TM8650	0.5 mil PET Film	160 Acrylic	72# PCK		2.4/2.4			✓	✓	✓	
FILMS Double-Coated Rubber											
TM8710A	0.5 mil PET Film	899 HM Rubber	60# SCK		2.0/2.0			✓	✓	✓	
TM8720	0.5 mil PET Film	593 HM Rubber	60# SCK		2.0/2.0			✓	✓	✓	
TM8750	0.5 mil PET Film	593 HM Rubber	80# SCK		2.6/2.6			✓	✓	✓	
TRANSFER TAPE											
TM1050	2.0 mil Transfer Adhesive	150 Acrylic	72# PCK		2.0	✓	✓		✓	✓	
TM1054	4.0 mil Transfer Adhesive	150 Acrylic	72# PCK		4.0	✓	✓		✓	✓	
TM1060	2.0 mil Transfer Adhesive	160 Acrylic	72# PCK		2.0	✓	✓		✓	✓	
TM1064	4.0 mil Transfer Adhesive	160 Acrylic	72# PCK		4.0	✓	✓		✓	✓	

Popular Materials

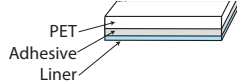
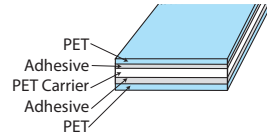
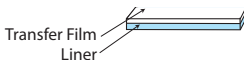
Product Number	Carrier	Adhesive Type	Liner	Product Construction		Coat Weight Mils	Conformable	Breathable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
NON-WOVENS Single-Coated												
TM8100 Custom	2.4 oz White Spunlace	160 Acrylic	60# PCK		1.8	✓	✓		✓	✓	✓	
TM8150 Custom	2.4 oz Tan Spunlace	160 Acrylic	60# PCK		1.8	✓	✓		✓	✓	✓	
TM8101	1.3 oz White Spunlace	160 Acrylic	60# PCK		1.8	✓	✓		✓	✓		
FOAMS Single-Coated												
TM4100A	1/16" PE WhiteFoam	150 Acrylic	96# PCK		2.2	✓		✓	✓	✓		
TM4101A Custom	1/16" PE WhiteFoam	150 Acrylic	96# PCK		1.4	✓		✓	✓	✓	✓	
TM4105	1/16" PE WhiteFoam	150 Acrylic	60# PCK		2.5	✓		✓	✓	✓		
TM4130A	1/32" PE WhiteFoam	150 Acrylic	96# PCK		2.2	✓		✓	✓	✓		
FOAMS Double-Coated												
TM4200A	1/16" PE WhiteFoam	150 Acrylic/ 899 HM Rubber	60# SCK		2.2/2.2	✓		✓	✓	✓		
TM4230A	1/32" PE WhiteFoam	150 Acrylic/ 899 HM Rubber	60# SCK		2.2/2.2	✓		✓	✓	✓		

Healthcare - Popular Materials

Product Number	Carrier	Adhesive Type	Liner	Product Construction	Coat Weight Mils	Conformable	Breathable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
VISODERM® Thin Film Tapes											
TM5170 Custom	1.0 mil Transparent Polyurethane Film - 2.0 mil PE Gloss Casting Sheet	VISODERM Acrylic	60# PCK		1.0	✓	✓	✓	✓	✓	✓
TM5170HCW Custom	1.0 mil Transparent Polyurethane Film - 2.0 mil PE Gloss Casting Sheet	VISODERM Acrylic	60# PCK		3.0	✓	✓	✓	✓	✓	✓
TM5110NG	1.0 mil Transparent Polyurethane Film - Self Wound Paper Casting Sheet	VISODERM Acrylic	None*		1.0	✓	✓	✓	✓	✓	



Popular Materials

					Coat Weight Mils	Conformable	Breathable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
Product Number	Carrier	Adhesive Type	Liner	Product Construction							
RESPONSE Diagnostic Tapes - Transfer Adhesives											
MD3012	N/A	RESPONSE - 02	72# PCK		2.0	✓	✓		✓	✓	
MD3013	N/A	RESPONSE - 02	72# PCK		3.0	✓	✓		✓	✓	
MD3014	N/A	RESPONSE - 02	72# PCK		4.0	✓	✓		✓	✓	
MD3020 Custom	N/A	RESPONSE - 03	72# PCK		2.2	✓	✓		✓	✓	✓
MD3022	N/A	RESPONSE - 03	72# PCK		2.0	✓	✓		✓	✓	
MD3023	N/A	RESPONSE - 03	72# PCK		3.0	✓	✓		✓	✓	
MD3024	N/A	RESPONSE - 03	72# PCK		4.0	✓	✓		✓	✓	
RESPONSE® Diagnostic Tapes - Double Coated											
MD1101 Custom	Single-Coated 1.0 mil Treated PET	RESPONSE - 02	40# SCK		2.2			✓	✓	✓	✓
MD2111	.5 mil PET	RESPONSE - 02	72# PCK		1.2/1.2			✓	✓	✓	
MD2113	.5 mil PET	RESPONSE - 02	72# PCK		1.2/1.2			✓	✓	✓	
MD2121	.5 mil PET	RESPONSE - 03	72# PCK		1.2/1.2			✓	✓	✓	
MD2122	.5 mil PET	RESPONSE - 03	(2) 2.0 mil PET		1.2/1.2			✓	✓	✓	
MD2123 Custom	.5 mil PET	RESPONSE - 03	72# PCK		2.4/2.4			✓	✓	✓	✓
MD3010 Custom	2.0 mil Transfer	RESPONSE - 02	60# PCK/ 40#SCK		2.2			✓	✓	✓	✓

Film Tapes & Transfer Adhesives



Our product offering includes single coated films, double coated films and transfer adhesives.. These products have been designed for direct skin contact, provide excellent adhesion and are cleanly removable without causing irritation. All products have been independently tested following ISO-10993 Guidelines.

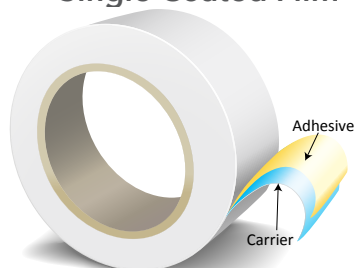
- Applications**
- Drape Assembly
 - Drape to Patient Attachment
 - Device Assembly
 - IV Securement

- Features & Benefits**
- ETO and Gamma Sterilizable
 - Removes Cleanly From Skin
 - Compatible with Most Drape Materials
 - Bio-Compatibility Tested
 - Latex-Free

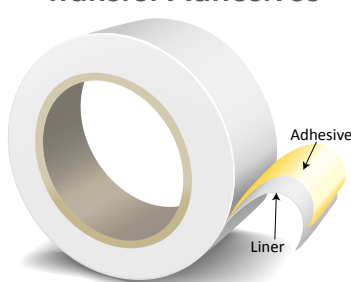
Product	Conformable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
Film Tape - Single Coated					
TM7100 Custom	✓	✓	✓	✓	✓
TM7101 Custom	✓	✓	✓	✓	✓
TM7102 Custom	✓	✓	✓	✓	✓
Film Tape - Double Coated					
TM8500		✓	✓	✓	
TM8510		✓	✓	✓	
TM8520		✓	✓	✓	
TM8610		✓	✓	✓	
TM8650		✓	✓	✓	
TM8710A		✓	✓	✓	
TM8720		✓	✓	✓	
TM8750		✓	✓	✓	
Transfer Adhesives					
TM1050	✓		✓	✓	
TM1054	✓		✓	✓	
TM1060	✓		✓	✓	
TM1064	✓		✓	✓	

Film Tapes & Transfer Adhesives

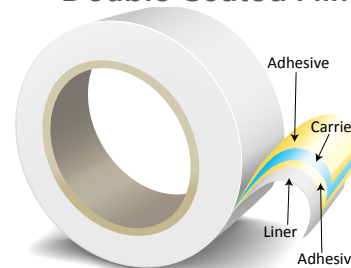
Single Coated Film



Transfer Adhesives



Double Coated Film



Product	Carrier	Adhesive	Coat Weight Mils	Liner(s)	Master Roll		Weight / MSI	Stock/MTO
					Width	Length		
Film Tape - Single Coated								
TM7100 Custom	2.5 mil White Gloss PE	899 HM Rubber	1.0	40# SCK	60"	750'	0.28	M
TM7101 Custom	2.5 mil Taffeta Embossed PE	899 HM Rubber	1.0	40# SCK	60"	750'	0.28	M
TM7102 Custom	3.0 mil Tan Matte Polyethylene	899 HM Rubber	1.0	40# SCK	60"	750'	0.28	M
Film Tape - Double Coated								
TM8500	.50 mil PET	160 Acrylic	1.2/1.2	2.0 mil PET/2.0 mil PET	60"	750'	0.30	S
TM8510	.50 mil PET	150 Acrylic	1.8/1.8	72# PCK	60"	750'	0.33	S
TM8520	.50 mil PET	150 Acrylic	2.4/2.4	72# PCK	60"	750'	0.35	S
TM8610	.50 mil PET	160 Acrylic	1.2/1.2	72# PCK	60"	750'	0.28	S
TM8650	.50 mil PET	160 Acrylic	2.4/2.4	72# PCK	60"	750'	0.35	S
TM8710A	.50 mil PET	899 HM Rubber	2.0/2.0	60# SCK	60"	750'	0.35	S
TM8720	.50 mil PET	593 HM Rubber	2.0/2.0	60# SCK	60"	750'	0.35	S
TM8750	.50 mil PET	593 HM Rubber	2.6/2.6	80# SCK	60"	750'	0.38	S
Transfer Adhesives								
TM1050	N/A	150 Acrylic	2.0	72# PCK	60"	540"	0.30	S
TM1054	N/A	150 Acrylic	4.0	72# PCK	60"	540"	0.32	S
TM1060	N/A	160 Acrylic	2.0	72# PCK	60"	540"	0.30	S
TM1064	N/A	160 Acrylic	4.0	72# PCK	60"	540"	0.32	S

Please request Mactac Performance Guides for detailed product information. Contact your sales representative or customer service for more information.

Shelf Life: Two years from date of manufacture, when stored at 75°F (24°C) and 50% relative humidity or less. It is recommended the product be stored in its original package, until ready for use.

Foam Tapes



Mactac[®] Medical foam products consist of cross-linked polyethylene foam that can be coated with our solvent-free adhesive systems.

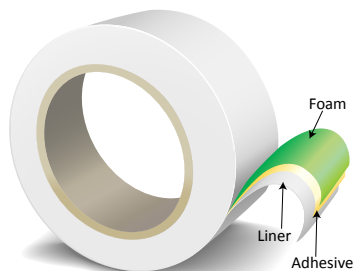
Our product offering offers a complete line of single and double coated foam tapes designed for medical device assembly. Mactac foam tapes have been designed for sustained skin contact, provide excellent adhesion and are cleanly removable from skin. All products have been independently tested following ISO-10993 guidelines.

- Applications**
- EKG/ECG Single Use Electrodes
 - AED/Defibrillator Pads
 - Grounding Pads
 - IV Securement
 - Device assembly

- Features & Benefits**
- Wear Times Up to Five Days
 - ETO and Gamma Sterilizable
 - Comfortable and Conformable
 - Bio-Compatibility Tested
 - Latex-Free

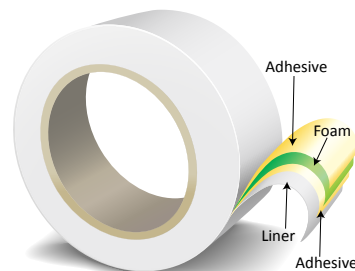
Product	Conformable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
Foam - Single Coated					
TM4100A	✓	✓	✓	✓	
TM4101Custom	✓	✓	✓	✓	✓
TM4105	✓	✓	✓	✓	
TM4130A	✓	✓	✓	✓	
Foam - Double Coated					
TM4200A	✓	✓	✓	✓	
TM4230A	✓	✓	✓	✓	

Foam Tapes



**Single Coated
Foam**

**Double Coated
Foam**



Product	Carrier	Adhesive	Coat Weight Mils	Liner(s)	Master Roll		Weight / MSI	Stock/MTO
					Width	Length		
Foam - Single Coated								
TM4100A	1/16"	150 Acrylic	2.2	96# PCK	60'''	300'	0.59	S
TM4101A Custom	1/16"	150 Acrylic	1.4	96# PCK	60'''	300'	0.55	M
TM4105	1/16"	150 Acrylic	2.5	60# SCK	60'''	300'	0.44	S
TM4130A	1/32"	150 Acrylic	2.2	96# PCK	60'''	300'	0.50	S
TM4805-72	1/8"	150 Acrylic	2.0	72# SCK	60'''	300'	0.65	S
Foam - Double Coated								
TM4200A	1/16"	150 Acrylic / 899 HM Rubber	2.2/2.2	60# SCK	60'''	300'	0.59	S
TM4230A	1/32"	150 Acrylic / 899 HM Rubber	2.2/2.2	60# SCK	60'''	300'	0.50	S

Please request Mactac Performance Guides for detailed product information. Contact your sales representative or customer service for more information.

Shelf Life: Two years from date of manufacture, when stored at 75°F (24°C) and 50% relative humidity or less. It is recommended the product be stored in its original package, until ready for use.

Product Key (Standard roll size: 60" unless otherwise noted)	
Liner	
96# PCK	= Polycoated Kraft
80# NK	= Brown Natural Kraft
60# SCK	= Bleached Super-Calendared Kraft

Non-Woven Tapes



Product	Conformable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
Non-Woven Tape - Single Coated					
TM8100 Custom	✓		✓	✓	✓
TM8150 Custom	✓		✓	✓	✓
TM8101	✓		✓	✓	

Mactac[®] Medical offers a complete line of non-woven tape products for Electromedical, wound care and bandage applications.

Our product offering includes 2.4oz and 1.3oz basis weight spunlaced polyester. The Spunlace non-woven products offer breathability and higher MVTR for wound care applications, and the elastic fabric product is excellent for use in bandage applications. All products have been independently tested following ISO-10993 Guidelines.

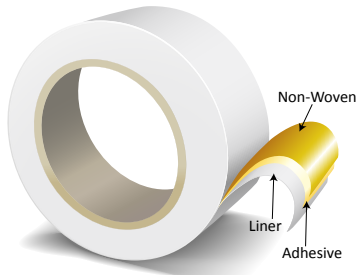
Applications

- EKG/ECG Single Use Electrodes
- TENS Electrodes
- Wound Care Dressings
- IV Securement
- Bandage

Features & Benefits

- Wear Times Up to Five Days
- ETO and Gamma Sterilizable
- Comfortable and Conformable
- Bio-Compatibility Tested
- Latex-Free

Non-Woven Tapes



**Single Coated
Non-Woven**

Product	Carrier	Adhesive	Coat Weight Mils	Liner(s)	Master Roll		Weight / MSI	Stock/MTO
					Width	Length		
Non-Woven Tape - Single Coated								
TM8100 Custom	2.4 oz White	160 Acrylic	1.8	60# PCK	60"	750'	0.40	M
TM8150 Custom	2.4 oz Tan	160 Acrylic	1.8	60# PCK	60"	750'	0.40	M
TM8101	1.3 oz White	160 Acrylic	1.8	60# PCK	60"	750'	0.35	S

Please request Mactac Performance Guides for detailed product information. Contact your sales representative or customer service for more information.

Shelf Life: Two years from date of manufacture, when stored at 75°F (24°C) and 50% relative humidity or less. It is recommended the product be stored in its original package, until ready for use.

Product Key (Standard roll size: 60" unless otherwise noted)

Liner

60# PCK = Polycoated Kraft

Transparent Dressing



Product	Conformable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
Non-Woven Tape - Single Coated					
TM5170 Custom	✓	✓	✓	✓	✓
TM5170HCW Custom	✓	✓	✓	✓	✓
TM5110NG	✓	✓	✓	✓	

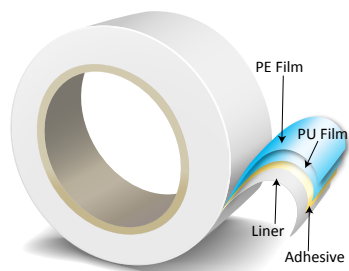
Mactac® Medical offers a complete line of breathable thin films for incise drape, wound care and catheter securement applications.

Our product offering incorporates a variety of product constructions including polyethylene and paper casting sheets to accommodate different converting methods and dressing styles. These products are breathable, allowing good oxygen and moisture vapor exchange. All products have been independently tested following ISO-10993 Guidelines.

- Applications**
- Wound Care
 - Incise and Drape Applications
 - IV and Catheter Securement
 - Secondary Dressing Over Gauze, Alginates or Hydrogels

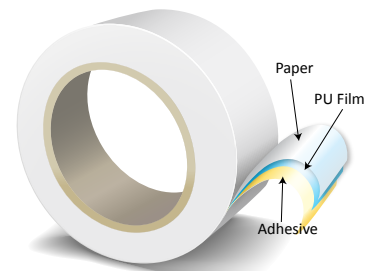
- Features & Benefits**
- Waterproof
 - Breathable
 - Impermeable to Bacteria & Viruses
 - Conformable
 - Bio-Compatibility Tested
 - EtO and Gamma Sterilizable

Transparent Dressing



PU Film/PE Film

PU Film/Paper
Self Wound



Product	Substrate	Adhesive Type	Liner	Single-Coated	Coat Weight Mills	MVTR	Master Roll		Weight / MSI	Stock/MTO
							Width	Length		
TM5170 Custom	1.0 mil Clear Polyurethane Film - 2.0 mil PE Casting Sheet	VISODERM Acrylic	60# PCK	✓	1.0	700-1000 g/M ² /day	60"	750'	0.33	M
TM5170HCW Custom	1.0 mil Clear Polyurethane Film - PE Casting Sheet	VISODERM Acrylic	60# PCK	✓	3.0	750-900 g/M ² /day	60"	750'	0.36	M
TM5110NG	1.0 mil Clear Polyurethane Film - Self Wound Paper Casting Sheet	VISODERM Acrylic	None	✓	1.0	750-800 g/M ² /day	60"	750'	0.32	S

Please request Mactac Performance Guides for detailed product information. Contact your sales representative or customer service for more information.

Shelf Life: Two years from date of manufacture, when stored at 75°F (24°C) and 50% relative humidity or less. It is recommended the product be stored in its original package, until ready for use.

Product Key (Standard roll size: 60" unless otherwise noted)
Liner
60# PCK = Bleached Polycoated Kraft
Carrier
PE = Polyethylene PU = Polyurethane

Diagnostic Adhesives



Mactac has developed the next generation of diagnostic adhesives utilizing **100% solids UV curing technology**. Solvent-free coating yields no VOCs, no outgassing, no migration. The cleanest adhesive polymers possible.

Applications

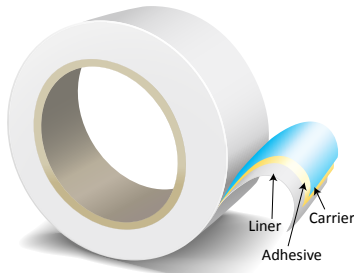
- Lateral Flow
- Micro Fluidic
- Titer Plates
- Micro Wells
- Lab-On-A-Chip
- Fluorescence
- PCR

Features

- Inert
- Ultra Clean
- Non-Outgassing
- Non-Migratory
- Non-Fluorescing
- Precise Deposition Control
- Wide Temperature Range

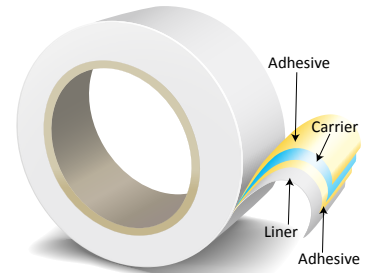
Product	Conformable	Fluid Barrier	Hypoallergenic	Latex-free	Custom
Transfer Adhesives					
MD3012	✓		✓	✓	
MD3013	✓		✓	✓	
MD3014	✓		✓	✓	
MD3020	✓		✓	✓	✓
MD3022	✓		✓	✓	
MD3023	✓		✓	✓	
MD3024	✓		✓	✓	
Double Coated					
MD1101	✓	✓	✓	✓	✓
MD2111	✓	✓	✓	✓	
MD2113	✓	✓	✓	✓	
MD2121	✓	✓	✓	✓	
MD2122	✓	✓	✓	✓	
MD2123 Custom	✓	✓	✓	✓	✓
MD3010 Custom	✓	✓	✓	✓	✓

Diagnostic Adhesives



Transfer Adhesives



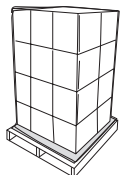
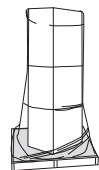
Double Coated



Product	Carrier	Adhesive	CoatWeight	Liner	Master Roll		Weight / MSI	Stock/MTO
					Width	Length		
Transfer Adhesives								
MD3012	NA	RESPONSE - 02	2.0 mil	72# PCK	60"	750'	.30	S
MD3013	NA	RESPONSE - 02	3.0 mil	72# PCK	60"	750'	.30	S
MD3014	NA	RESPONSE - 02	4.0 mil	72# PCK	60"	750'	.30	S
MD3020 Custom	NA	RESPONSE - 03	2.2 mil	72# PCK	60"	750'	.30	M
MD3022	NA	RESPONSE - 03	2.0 mil	72# PCK	60"	750'	.30	S
MD3023	NA	RESPONSE - 03	3.0 mil	72# PCK	60"	750'	.30	S
MD3024	NA	RESPONSE - 03	4.0 mil	72# PCK	60"	750'	.30	S
Double Coated								
MD1101 Custom	Single-Coated 1.0 mil Treated PET	RESPONSE - 02	2.2 mil	40# SCK	60"	750'	.30	M
MD2111	.5 mil PET	RESPONSE - 02	1.2/1.2 mil	72# PCK	60"	750'	.30	S
MD2113	.5 mil PET	RESPONSE - 02	2.4/2.4 mil	72# PCK	60"	750'	.30	S
MD2121	.5 mil PET	RESPONSE - 03	1.2/1.2 mil	72# PCK	60"	750'	.30	S
MD2122	.5 mil PET	RESPONSE - 03	1.2/1.2 mil	(2) 2.0 mil PET	60"	750'	.30	S
MD2123 Custom	.5 mil PET	RESPONSE - 03	2.4/2.4 mil	72# PCK	60"	750'	.30	M
MD3010 Custom	2.0 mil Transfer	RESPONSE - 02	2.2 mil	60# PCK/ 40#SCK	60"	750'	.30	M

Mactac can also offer custom products with various liner, face, adhesive or coat weight configurations.

Packaging

 <p>Poker Packaging</p>	 <p>Cradle Packaging</p>	 <p>Carton Packaging</p>	 <p>Log Roll Carton Packaging</p>
Pallets will be selected to best match order widths, lengths and volumes.	Pallets will be selected to best match order widths, lengths and volumes.	Pallets will be selected to best match order widths, lengths and volumes.	Pallets will be selected to best match order widths, lengths and volumes.
Chip board / Deck Pads	Chip board / Deck Pads	Chip board / Deck Pads	Chip board / Deck Pads
Rolls placed with labels lined up uniformly facing the outside of the length of the pallet.	Rolls placed with labels lined up uniformly facing the outside of the length of the pallet.	Place poly bag into carton	Poly bag each roll
Release discs between rolls.	Release discs between rolls.	Release paper on bottom and between rolls	Upsom pad (fit to carton) with plastic plug (2113) and release disc on each end of the roll
2 x 2 angle board between roll cores.	2 x 2 angle board between roll cores.	Pilot core between roll cores (must be 2" from top)	
Poly Sheet	Plastic banded rolls to pallet through 2 x 2 angle boards	May use upsom between layers for stability	
Stretch wrap	Roll wedges	Corner board	
Pallet label placed on top end of the length side of pallet facing out	Poly sheet	Polyband to pallet	Lay carton down on skid
	Stretch wrap	Stretch wrap	Rope and stretch wrap
	Pallet label placed on top end of the length side of pallet facing out.	Pallet label placed on top end of the length side of the pallet.	Pallet label placed on top end of the length side of the pallet.
* Special Requests - Call Customer Service at 800-548-3456. Additional charges may apply.			

Pallet Options	
30" L x 30" W	48" L x 40" W
36" L x 36" W	48" L x 48" W
45" L x 45" W	54" L x 30" W
48" L x 30" W	60" L x 30" W

**Pallets can contain mixed roll widths.
All efforts will be taken to
keep mixed pallets to a minimum.**

Lead Times & Service

How to Order

Mactac Customer Service Contact Information	
Email	performanceadhesives@mactac.com
Phone	800-548-3456
Fax	800-233-4293
Shipment Lead Time	
Standard Slitting Orders	Medical Tape Products Ship in 10 business days unless otherwise noted on your quote.
Custom Orders	Lead times vary based on construction, order volume and scheduling. Please work directly with your sales representative. Custom orders have a shipment tolerance of +/- 20% of the original quantity ordered. Customer will be billed for the actual amount of material shipped.

Standard Roll Lengths & Handling Charges			
Product Line	MOQ	Master Roll Length	Short Roll Fee Applied per Product
Double-Coated Tapes	1 master roll	750'	\$50.00
Foam Tapes 1/32" Foam 1/16" Foam	1 master roll 1 master roll	300' 300'	
Transfer Adhesives	1 master roll	540'	\$50.00
* Longer roll lengths are available, maximum length will be determined by desired slit width.			
Standard Slitting Charges			
Set Up Charge - IB, IM, IF, CB, CF, ARTX, TM Products		Slitting Tolerance	Shipping Tolerance # of Slit Rolls
# of Cuts / Approx. Width	Fee		
0 - 9 Cuts > 6"	n/a	+/- 1/32"	+/- 10%
10 - 27 Cuts 2" - 6"	\$50.00	+/- 1/32"	+/- 10%
28 - 54 Cuts 1" - 2"	\$100.00	+/- 1/32"	+/- 20%
55+ < 1" **	\$150.00	+/- 1/32"	+/- 20%
** Please call your sales representative if you require slit rolls that are less than .75" wide. Lead time, roll lengths and slitting charges may vary.			

Terms & Conditions

NOTICE: THIS ORDER WILL BE ACCEPTED AT TIME OF INVOICING AND SHIPMENT, AND WILL BE BILLED AT THE PRICE PREVAILING AT THE TIME OF SHIPMENT OF THE GOODS.

RETURNED MERCHANDISE CLAIMS - WILL NOT BE ACCEPTED UNLESS AUTHORIZED IN WRITING BY OUR HOME OFFICE. ALL CLAIMS FOR DEFECTIVE MERCHANDISE MUST BE MADE WITHIN 30 DAYS OF THE RECEIPT OF SHIPMENT. CLAIMS FOR LATENT DEFECTS MUST BE MADE WITHIN 90 DAYS.

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 6, 7, AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

STANDARD TERMS AND CONDITIONS OF SALE

1. Acceptance: This order is accepted by the seller (the "Company"), on and subject to the following terms and conditions, which terms and conditions may not be varied or added to except by a writing signed by the Company's duly authorized representative. Any terms in Purchaser's order or confirmation which are inconsistent herewith shall not be binding upon the Company. Telephone Monitoring - We treat every customer call confidentially. To ensure that you receive accurate and courteous customer service, on occasion, your call may be monitored by a second employee.

2. Terms: All orders will be accepted at time of shipping and invoicing, and will be billed at the price prevailing at the time of shipment of the goods.

The terms of payment will be set forth on the face of the invoice.

3. Freight: All shipments are F.O.B. Factory, Shipping Point. All risk of loss or damage to the goods shall pass to the Purchaser upon delivery of the goods to a common carrier, whether sold with freight allowed or otherwise. The Company reserves the right to ship goods via the most economical routing; if shipped otherwise upon the Purchaser's request, Purchaser shall pay the difference in rate of transportation.

4. Taxes: All sales, excise or similar taxes which the Company may be required to pay or collect with respect to the goods covered by this order shall be paid by Purchaser, except as otherwise provided by law.

5. Excuse: The Company shall not be liable for failure to perform this contract by reason of strikes, fires, floods, unavoidable accidents, wars, delays in transportation, acts of God, or other causes beyond its reasonable control.

6. Warranty: The customer assumes all risk and liability for results obtained by the use of the Company material, whether used singly or in combination with other products. The Company is not responsible for the performance of materials which are (a) over 180 days old or (b) stored under conditions other than those specified on the Company shipping or carton label. The Company warrants that its goods are as described on the face hereof and are of commercially acceptable quality.

THE COMPANY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED AND ALL OTHER WARRANTIES INCLUDING, WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, ANY AND ALL WARRANTIES OF MERCHANTABILITY OR WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED AND DISCLAIMED. THE COMPANY'S LIABILITY PURSUANT TO ANY WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF THE MATERIAL SOLD OR REPAYMENT OF THE PURCHASE PRICE. UNDER NO CIRCUMSTANCES SHALL THE COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR DAMAGE TO OTHER PROPERTY, WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, THE COMPANY SHALL HAVE NO LIABILITY FOR LOSS OF BUSINESS, BUSINESS INTERRUPTIONS, OR LOST PROFITS. IN NO EVENT SHALL THE COMPANY'S LIABILITY ON ANY WARRANTY OR CLAIMS WHATSOEVER, EXCEED THE COST OF THE MATERIALS SOLD.

7. Claims: Purchaser shall give written notice to the Company of any claims for breach of warranty within thirty (30) days after receipt of the goods if the breach or defect in the goods was or should have been discovered upon inspection of the goods; and Purchaser shall give written notice to the Company of any other claims for breach of warranty within ninety (90) days after it discovers or should have discovered such breach. Any remedy of the Purchaser against the Company shall be barred unless notice is given in accordance with the foregoing provision. All actions by the Purchaser for breach of warranty against the Company shall be brought within 180 days after the cause of action thereon accrues.

The liability of the Company for breach of warranty shall be limited solely to either the replacement of the goods or the return of the goods and repayment of the purchase price to Purchaser at the Company's discretion; such remedy shall be the exclusive and sole remedy of the Purchaser against the Company. The Company shall not be liable for any consequential or incidental damages suffered by Purchaser as a result of any breach of warranty.

8. Litigation: In the event that suit is brought against the Purchaser with patent infringement by reason of its use of any of the goods sold hereunder, Purchaser shall give notice in writing to the Company of such suit within ten (10) days after the service upon the Purchaser of notice of such action. Failure to give such notice shall bar any claim of Purchaser against the Company resulting from such litigation.

9. Applicable Law: This Agreement shall be governed by and construed upon the laws of the State of Ohio and Federal law where applicable.

10. Entire Agreement: This Agreement contains the entire agreement between Purchaser and the Company and shall not be varied or added to except by a further written agreement signed by Company's duly authorized representative.

11. Indemnities: The Buyer shall indemnify and hold harmless the Producer from any and all loss, cost, expense and damages on account of any and all manner of claims, demands, actions and proceedings that may be instituted against the Producer on grounds alleging that the said product and method violates any copyright or any proprietary right of any person, or that contains any matter that is libelous or scandalous, or invades any person's right to privacy or other personal rights, except to the extent that the Producer has contributed to the matter. The Buyer agrees to, at the Buyer's own expense, promptly defend and continue the defense of any such claim, demand action or proceeding that may be brought against the Producer, provided further that the producer shall give to the Buyer such reasonable time as the exigencies of the situation may permit in which to undertake and continue the defense thereof.

