

# total + care

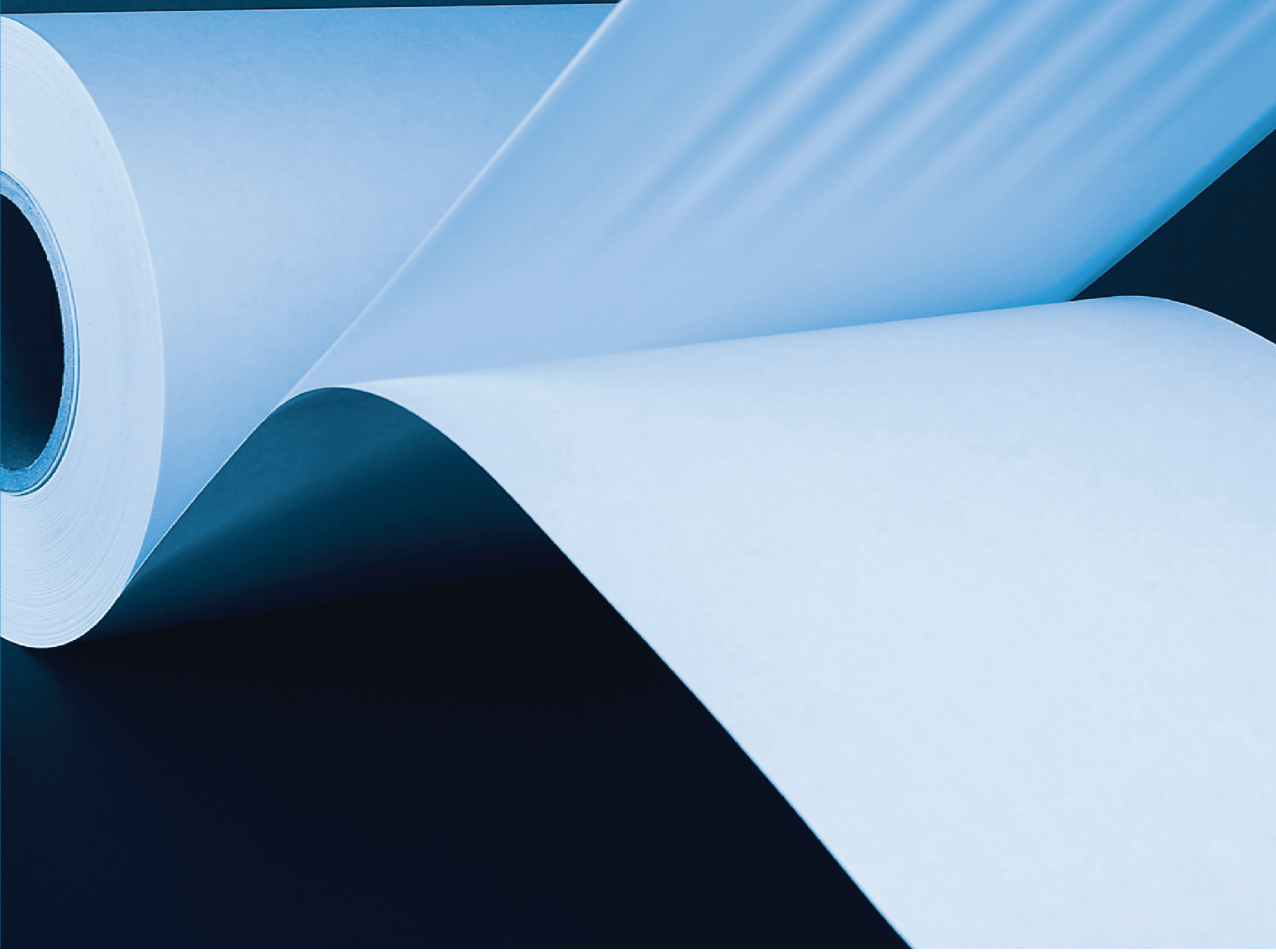
*Extended Total Range of Solutions for the Medical Industry*



***For over 50 years, companies worldwide have trusted TC Transcontinental Advanced Coatings to provide reliable, high-quality cast and coated products that stand up to the most challenging applications.***

*TC Transcontinental Advanced Coatings is a global leader in developing, manufacturing, and distributing precision coating components for medical, optical, and electronic technologies. Our purpose is to be your reliable, exclusive provider for all your medical component needs through our comprehensive medical Total Care product portfolio.*

*Our Total Care portfolio provides tailored solutions and technical excellence to enhance your products that support patient care, comfort, wellness, and healing. Our unique combination of world-class global facilities, customized equipment, expansive portfolio breadth, skilled personnel, and medical market expertise provides the platform for us to deliver products with the optimum balance between quality, performance, and value.*



## Custom Solutions from Concept to Commercial

Our commitment to be the leader in providing high-quality, high-performance coated films, foams and adhesives is demonstrated through our state-of-the-art laboratories, clean room capabilities, and multiple coating and converting line manufacturing facilities qualified in two continents.

Globally positioned, TC Transcontinental offers precise solutions to meet your design and application requirements, no matter the complexity.

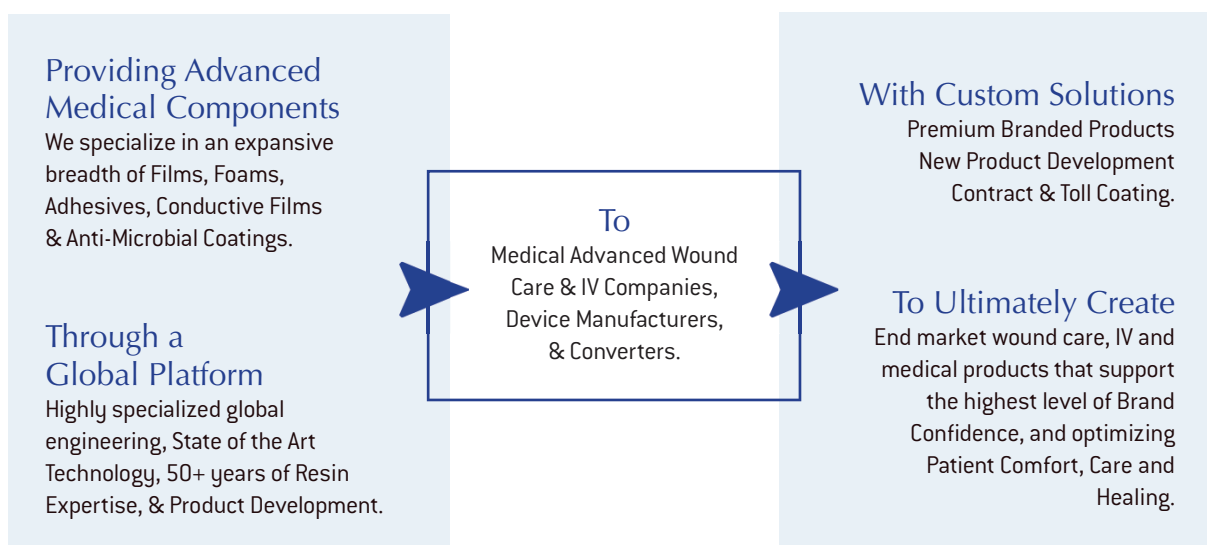
Highly regarded with a proven track record, TC Transcontinental will be your partner to collaborate and develop an innovative solution for your product requirements. Together, we will implement a custom plan to deliver the quality you expect from initial lab work through commercialization while ensuring strict confidentiality.



## Global Reach

Our ISO-certified manufacturing facilities in Europe and the USA provide high-performance products for the most challenging and sensitive medical and device components worldwide.

## Filling a Crucial Role in the Medical Supply Chain



Transcontinental Advanced Coatings recognized for over 50 years as a global leader in providing specialty films, foams, adhesives, and foils, including contract and toll coating. We are also a trusted R&D and manufacturing partner helping you bring your product to market. With shorter product life cycles and changing technologies, we offer a set of strategic options to enhance your flexibility without the added investment in equipment and workforce.

# Confidence

## SINGLE SOURCE SOLUTION

We are positioned to be your single source for all your medical component needs. Our capabilities include mixing, casting, laminating, converting, printing, product development, and R&D labs. This comprehensive range of services allows us to manage complex projects whilst providing our customers with the ability to mix and match attributes for the specific product component they require. This single-source solution streamlines our customer's supply chain allowing for increased efficiency throughout the product life cycle. Additionally, this provides our customers with business continuity and peace of mind by reducing administrative activities, inventory, waste management, warehousing, and transportation costs.

# Trust

## CUSTOMER-CENTRIC

Whether you require one of our branded products or need a custom solution, we can be relied upon as a dependable partner that respects confidentiality and ensures a secured brand reputation. Your success is our priority. We built our highly-respected business on trust acquired through years of providing consistent service, quality, solutions, and overall product excellence. We are dedicated to supporting each customer with our cross-functional, field-based support, including sales, operations, technology, and R&D.

# Value

## PRODUCT EXCELLENCE

We understand that high-performing products will contribute to manufacturers' and converter's bottom line and support brand security. Certified ISO process controls, camera quality checks, cleanroom environments, robust design, and state-of-the-art technology affirms product consistency and uniformity, contributing to lowered waste and optimized customer profitability. Our films and coatings have track-record performance for proven manufacturing yields and performance.



*An overall commitment to excellence, an innovation mindset, an expansive product range, an advanced technology platform, and expertise in resin development contribute to securing your brand reputation.*

# Advancing Technology

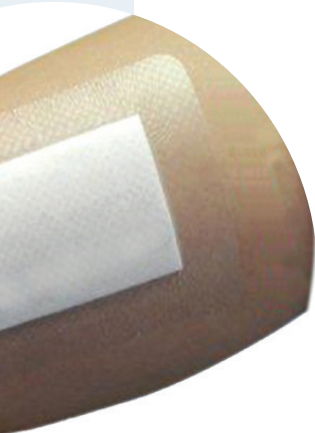
## INNOVATION VITALITY

Innovation is a core value that drives our organization, and it is in our business DNA. Customer collaboration and the desire to anticipate evolving needs push us to expand our core products and process technology. We leverage innovation to solve problems with a cross-functional approach to predict the future needs of the medical industry. We crafted our innovative product portfolio of patented technology to meet the highest level of performance requirements: breathability, waterproofness, conformability, conductivity, anti-microbial, and more.

# Insight

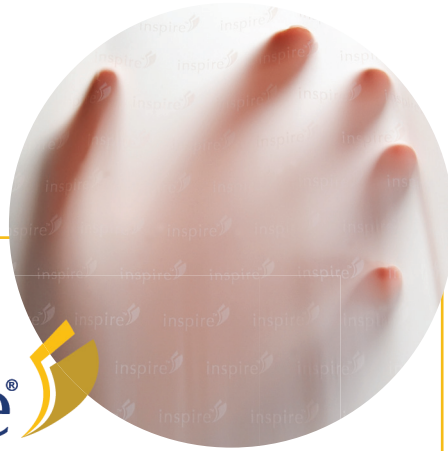
## MARKET EXPERTISE

We manufacture several million square meters a year of the most advanced wound care, IV, and medical device components available to brand owners and medical product manufacturers alike. Our experience has contributed to an intimate knowledge of the medical industry's unique needs, including the pertinence of confidentiality, sterility, regulatory requirements, innovation, and reliability. We respect the imperatives of the industry and value our critical role in the healthcare supply chain, which ultimately will directly contribute to our customer's brand and reputation within the different markets.



# total + care

***Extended Total Range of Solutions for the Medical Industry***



## inspire<sup>®</sup> Total Care

**Products:**

- Polyurethane Films
- Foams
- Flood coated and pattern coated, acrylic & water-based adhesives

*The inspire<sup>®</sup> brand reflects 30 years of development and manufacturing expertise within the medical market. The trusted inspire<sup>®</sup> portfolio offers various medical coating components for wound care, ostomy, IV, and medical devices, from ultra-thin polyurethane films and foams to innovative medical-grade adhesives.*

## reflex<sup>™</sup> Total Care Anti-Microbial

**Products:**

- LT Digital High-Performance Hardcoated Polyester Films  
- w/BioMaster<sup>®</sup> Antimicrobial Technology

*We developed our reflex<sup>™</sup> range of high-performance graphic overlay and protection films to meet the exacting requirements of HMI, Membrane Touch Switch, Fascia, Durable Label, and electronic display manufacturers. The growth of bacteria, mold, and fungi is*

For over 50 years, global manufacturers and brands have chosen and trusted TC Transcontinental Advanced Coatings to deliver high-performance medical components for advanced wound care, IV, and medical devices.

**Our focus is to be the leading provider for your medical component needs with our Total Care comprehensive range of products.**



*reduced by a silver-based anti-microbial additive from BioMaster®. We have designed optimal performance characteristics such as anti-microbial functionality, hardness, scratch & chemical resistance, embossing, and extensive switch life capability while maintaining the ability to die-cut technically challenging parts. The LT Digital Hardcoated films provide anti-microbial functionality to eliminate the growth of bacteria, mold, and fungi by incorporating a silver-based anti-microbial additive from BioMaster®.*



**z-flo®**

**Total Care Conductive**

**Products:**

- Medical Electrodes
- Electrocardiogram (ECG/EKG)
- Defibrillation Electrodes (AED)
- TENS for Stimulus

*Our z-flo® carbon and silver-coated conductive films provide uniformly dispersed surface, high-performance three-axis (x-y-z) conductivity and reliability making our z-flo® films ideal for use in various compact and lightweight medical diagnostics and treatment devices such as electrodes for patient monitoring, defibrillation, and muscle stimulation.*



We developed our lines of breathable, bacterial barrier, polyurethane films for professional wound care, IV & Post Op products, support of patient comfort, healing, and improved clinical outcome.

**The Total Care Excellence line of premium polyurethane films is custom manufactured to meet your exact needs and provides exceptional performance for the medical product manufacturer.**

**Total Care Excellence Offering**

- Single or Multi-Layer
- Polyurethane Films
- Adhesive Coated Films
- Pattern Coated Films

**Ideal Markets**

- Advanced Wound Care
- IV
- Post Op Surgery
- Consumer
- Skin Care

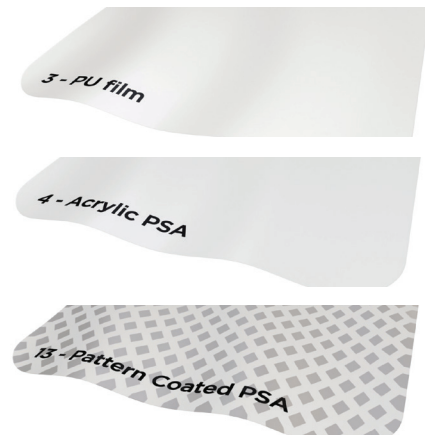
**Options:**

Clear, Pink, Beige, or White, and can be single printed with FDA-approved inks.

*Available with either filmic or paper casting liners  
Available in Master Rolls or slit to specification*

**Ideal Applications**

Advanced wound care, IV dressings, Post Op Dressings, Flat Film Dressings, Consumer acne care dressings such as backing film for hydrophilic foams, hydrocolloid dressings and adhesive coated secondary wound dressings.



**Performance Features**

Custom Crafted  
Printable  
Breathable  
Bacterial Barrier

Conformable  
Waterproof

Adaptive Adhesive Strength  
Good Transparency

**Advantages**

Designed to Meet Your Exact Needs  
Ability to Brand  
Supports Wound Healing  
Helps to Mitigate Infection

Patient Comfort (dressing remains in place longer)  
Withstands Patient Washing/Showering

Gently Removed from Skin  
Visualization



**Polyurethane Films**



Product Description	PU Film Thickness ( $\mu$ )	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m <sup>2</sup> /24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Product Codes & Available Colours
PU Film on a Paper Liner	15 $\mu$	0.12	3500	12.5	440	Inspire 2151 (Clear)  Inspire 2150 (Pink)
PU Film on a Polyester Liner	20 $\mu$	0.12	3000	20	475	Inspire 1201 (Clear)  Inspire 1206 (Pink)
PU Film on Paper Liner (good bond with Hydrocolloids)	25 $\mu$	0.11	1550	22	550	Inspire 2250 (Clear)
PU Film on a Paper Liner	30 $\mu$	0.12	2600	27.5	475	Inspire 2301 (Clear)  Inspire 2350 (Pink)  Inspire 2340 (Beige)  Inspire 2370 (White)
PU Film on a Filmic Liner	30 $\mu$	0.12	2300	35	500	Inspire 1301 (Clear)
PU Film on a Filmic Liner	30 $\mu$	0.12	2600	27.5	475	Inspire 2304 (Clear)  Inspire 2352 (Pink)
PU Film on a Paper Liner	60 $\mu$	0.15	1700	77	825	Inspire 2601 (Clear)  Inspire 2650 (Pink)



**Polyurethane Films & Flood Coated Adhesive**



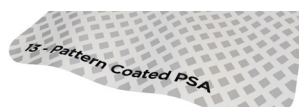
Product Description	PU Film Thickness ( $\mu$ )	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m <sup>2</sup> /24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Typical Adhesion to Steel (N/25mm)	Adhesive Deposit (g/m <sup>2</sup> )	PSA Liner Release (N/25mm)	Product Codes & Available Colours
PU Film on a Filmic Liner with High Tack PSA on a Paper Liner	30 $\mu$	0.15	600	27.5	475	19	40	0.05	Inspire 2327 (Clear)
PU Film on a Filmic Liner with Medium Tack PSA on a Paper Liner	30 $\mu$	0.15	600	27.5	475	13	40	0.05	Inspire 2331 (Clear)  Inspire 2351 (Pink)
PU Film on a Filmic Liner with Breathable PSA on a Paper Liner	30 $\mu$	0.14	1200	35	500	19	9	0.04	Inspire 1306 (Clear)
PU Film (no liner) with Medium Tack PSA on a Paper Liner	60 $\mu$	No Liner	450	>50	800	13	40	0.06	Inspire 2640 (Clear)



**Polyurethane Films & Pattern Coated Adhesive**



Product Description	PU Film Thickness ( $\mu$ )	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m <sup>2</sup> /24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Typical Adhesion to Steel (N/25mm)	Adhesive Deposit (g/m <sup>2</sup> )	PSA Liner Release (N/25mm)	Product Codes & Available Colours
PU Film on a filmic Liner with a Medium Tack 75% Pattern Coated PSA on a Paper Liner	20 $\mu$	0.12	2500	20	475	17	18	0.06	Inspire 1201P (Clear)
PU Film on a filmic Liner with a Medium Tack 75% Pattern Coated PSA on a Paper Liner	30 $\mu$	0.2	1500	27.5	475	17	18	0.1	Inspire 2375P (Clear)  Inspire 2371P (Pink)
PU Film on a filmic Liner with a High Tack 50% Pattern Coated PSA on a Paper Liner	30 $\mu$	0.2	2000	27.5	475	8	12	0.1	Inspire 2376P (Pink)
PU Film on filmic liner with a High Tack 50% Pattern Coated PSA on a Paper Liner	15 $\mu$	0.2	3300	12.8	430	10	13	0.06	Inspire 2155P H50D (Clear)



# inspire®

## Total Care Ultra Breathable

Our premium range extension of the inspire® line comprises our newly-developed, thin-gauge, medical polyurethane films. These are the next generation in advanced wound care films, these innovative, specialty films provide ultra-breathability and conformability.

The inspire® Total Care Ultra-Breathable line of value-enhancing films delivers quality, design, and performance without compromise.

### Options

Available in Master Roll format or slit  
Available on a variety of liners

### Ideal Applications

Advanced Wound Care, IV dressings, Post Op Dressings, Flat Film Dressings, Consumer acne care dressings such as ACNE patches, backing film for hydrophilic foams and adhesive coated secondary wound dressings.

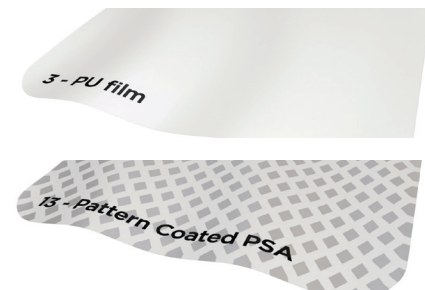


### Ultra Breathable Offering

- Polyurethane Films
- Adhesive Coated Films
- Pattern Coated Pressure-sensitive Adhesive

### Ideal Markets

- IV
- Post Op Surgery
- Consumer and Skincare



### Performance Features

Ultra-Breathable (+2000 to 3000+ MVTR)Printable  
Ultra-Thin (Single-Layer)  
Bacterial Barrier

Waterproof

Adaptive Adhesive Strength

Good transparency, exceptional matte surface

### Advantages

Supports Wound Healing  
Conforms to Challenging Areas with Comfort  
Helps to Reduce Infection

Withstands Patient Washing/ShoweringWithstands

Gently Removes from Skin, reducing the risk of  
Medical Adhesive Related Skin Injuries (MARS)

Visualization through Dressing

**Polyurethane Films**



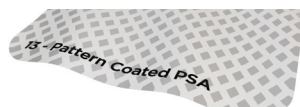
Product Description	PU Film Thickness (µ)	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m2/24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Product Codes & Available Colours	
PU Film on a Filmic Liner	20µ	0.08	3600	16	630		Inspire 1270 (Clear)
PU Film on a 1 Sided Siliconised Paper Liner	20µ	0.07	3600	16	600		Inspire 1285 (Clear)
PU Film on a 2 Sided Siliconised Paper Liner	20µ	0.07	3600	16	600		Inspire 1290 (Clear)
PU Film on a 2 Sided Siliconised Paper Liner	30µ	0.04	3600	16	600		Inspire 1290LR (Clear)
PU Film on a 1 Sided Siliconised Paper Liner	30µ	0.1	3200	22	570		Inspire 2285 (Clear)
PU Film on a Paper Liner	30µ	0.1	3200	22	570		Inspire 2286 (Clear) Inspire 2287 (Pink)



**Polyurethane Films & Pattern Coated Adhesive**



Product Description	PU Film Thickness (µ)	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m2/24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Typical Adhesion to Steel (N/25mm)	Adhesive Deposit (g/m2)	PSA Liner Release (N/25mm)	Product Codes & Available Colours	
PU Film on a Filmic Liner with a Medium Tack 75% Pattern Coated PSA on a Glassine Liner	20µ	0.1	2850	16	600	9	19	0.06		Inspire 1270P (Clear)
PU Film on a 1 Sided Siliconised Paper Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	20µ	0.09	2850	16	600	9	19	0.06		Inspire 1285P (Clear)
PU Film on a 2 Sided Siliconised Paper Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	20µ	0.09	2850	16	600	9	19	0.06		Inspire 1290P (Clear)
PU Film on a 1 Sided Siliconised Paper Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	30µ	0.12	2450	22	570	9	19	0.06		Inspire 2285P (Clear)
PU Film on a Polyslick Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	30µ	0.12	2450	22	570	9	19	0.06		Inspire 2286P (Clear) Inspire 2287P (Pink)





The inspire® brand of polyurethane foams is developed for professional wound care products where soft cushioning, insulation, and ease of application are required.

**Foam Offering**

- Available with a polyurethane film top layer

**Ideal Markets**

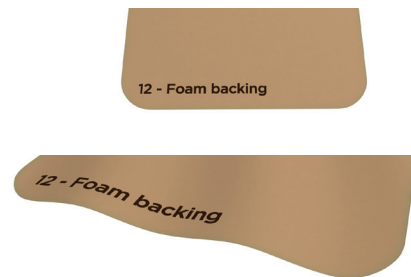
- Wound Care
- Consumer

**Options**

Available in Master Rolls or Slit to Specification

**Ideal Applications**

Advanced Wound Care



**Performance Features**

- Exceptionally Soft Feel
- Cushioning and Insulating Characteristics
- Low Coefficient of Friction

The outer film provides a bacterial barrier, and an easy clean surface

Used to create dressings that can be applied without the need for support films/papers









**Advantages**

- Patient Comfort
- Extensible
- Flexible

Helps to Reduce Infection

Value



Product Description	PU Film/Foam Thickness (μ)	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m2/24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Product Codes & Available Colours		
15μ Clear PU Film & 235μ PU Foam on a paper casting Liner	250μ	0.15	2500	25	450	 Inspire 7250 (Beige)	 Inspire 7251 (White)	 Inspire 7252 (Pink)
30μ PU film & 235μ PU foam on a paper casting liner	250μ	0.15	1500	40	550	 Inspire 7256 (Light Brown)		
15μ Clear PU Film & 235μ PU Foam on a paper casting Liner	250μ	0.15	4000	21	400			 Inspire 7255 (Pink)
15μ Clear PU Film & 385μ PU Foam on a paper casting Liner	400μ	0.15	1500	30	450	 Inspire 7240 (Beige)	 Inspire 7241 (White)	 Inspire 7242 (Pink)





**Total Care Conductive**

### Conductive Films and Foils for Conductivity and Reliability

The z-flo® brand of Advanced Coatings is recognized and trusted worldwide for delivering high-performance conductivity and reliability for advanced medical diagnostic. Lightweight and high performing, our carbon-filled polymeric films with or without additional silver coatings exhibit high conductivity, will not flake, and are unaffected by humidity.

Their precise coating, uniformly dispersed conductivity, and "through" conductivity (in the z-direction) make our films ideal for use in a variety of compact and lightweight medical diagnostics and treatment devices.

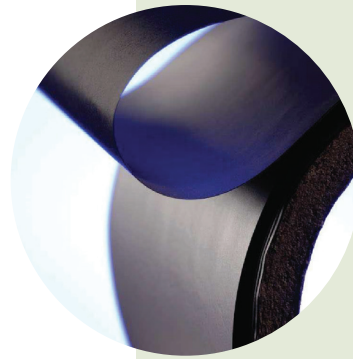
### Options

Available as master roll or slit to specification

### Ideal Applications

Muscle Stimulation, Patient Monitoring, Transdermal Drug Delivery, and use in other diagnostic devices where z-direction conductivity is required

- Stimulator Electrodes: Vinyl and Silver-Coated Vinyl
- Transcutaneous Electrical Nerve Stimulation (TENS)
- Neuromuscular Electrical Stimulation (NMES)
- Monitoring Electrodes: Vinyl and Silver-Coated Vinyl
- EEG and Other Medical Monitoring Vinyl
- Defibrillation Electrodes: Silver/Silver Chloride Coated Vinyl
- Iontophoresis Electrodes: Vinyl and Silver-Coated Vinyl
- Transdermal Drug Delivery Applications



### z-flo® Offering

Conductive Vinyl  
Silver Coated Vinyl  
Silver/Silver Coated Vinyl

### Ideal Markets

Medical Electrodes



### Performance Features

Uniformly dispersed, high conductivity  
"Through" conductivity

Lightweight  
Low-cost and high-performing  
Unaffected by humidity  
Resist corrosion and attach by chemicals  
Provide adhesion for coatings or laminations

### Advantages

Ultra reliability

Ideal for use in compact & lightweight devices  
Value and dependability  
Will not flake



STANDARD PRODUCTS							
Product Code	Product Description	Structure	Sides Coated	Total Caliper	Resistivity at 24°C	Base Weight	Tensile Strength
				(mils)	(ohms/sq)	(g/m <sup>2</sup> )	
1153	Conductive Vinyl	Carbon/Vinyl Film	N/A	1.75 (44 um)	<145	22	>5
2267	Conductive Vinyl	Carbon/Vinyl Film	N/A	2.35 (60um)	<145	74.9	>6
2252	Conductive Vinyl	Carbon/Vinyl Film	N/A	4.0 (102um)	<65	127.5	>10.5
4201	Silver Coated Conductive Vinyl Substrate	2267 + Silver	1	2.6 (67um)	<1.5	85.0	
4204	Silver Coated Conductive Vinyl Substrate	2267 + Silver	1	2.5 (64um)	<2.5	83.7	
4401	Silver Coated Conductive Vinyl Substrate	2252 + Silver	1	4.2 (107um)	<10	138.7	
6355	Silver with Silver/Silver Chloride Coated Vinyl Substrate	2267 + Silver +Silver/Silver Chloride	1	2.4 (61um)	<10	79.3	
6404	Silver with Silver/Silver Chloride Coated Vinyl Substrate	2252 + Silver +Silver/Silver Chloride	1	4.1 (104um)	<1.5	131.9	
8201	Silver/Silver Chloride Coated Conductive Vinyl Substrate	2267 +Silver/Silver Chloride	1	2.4 (61um)	<180	79.3	
8403	Silver/Silver Chloride Coated Conductive Vinyl Substrate	2252 +Silver/Silver Chloride	1	4.1 (104um)	<100	131.9	

SPECIALIST PRODUCTS *Please contact TC Regarding MOQs & Lead Times*							
Product Code	Product Description	Structure	Sides Coated	Total Caliper	Resistivity at 24°C	Base Weight	Tensile Strength
				(mils)	(ohms/sq)	(g/m <sup>2</sup> )	
1150	Conductive Vinyl	Carbon/Vinyl Film	N/A	1.60 (41um)	N/A	19.2	>4
2264	Conductive Vinyl	Carbon/Vinyl Film	N/A	2.0 (51um)	<145	63.7	>5.5
4206	Silver Coated Conductive Vinyl Substrate	2267 + Silver	1	2.4 (61um)	<25	77.5	
4402	Silver Coated Conductive Vinyl Substrate	2252 + Silver	1	4.1 (104um)	<3.5	136.3	
6351	Silver with Silver/Silver Chloride Coated Vinyl Substrate	2267 + Silver +Silver/Silver Chloride	1	2.5 (64um)	<10	82.0	
6402	Silver with Silver/Silver Chloride Coated Vinyl Substrate	2252 + Silver +Silver/Silver Chloride	1	4.2 (106um)	<10	134.0	
7403	Silver Side "A" - Silver/Silver Chloride Side "B"	Conductive Vinyl Substrate	2	4.3 (109um)	N/A	135.0	





### Hard Coated Polyester Film

We developed our line of reflex™ branded hard coated polyester films to meet the requirements of screen printers, membrane touch switches, fascia-panel manufacturers, and their end-users.

We have designed optimal performance characteristics in hardness, chemical resistance, the ability to be embossed, and extensive switch life capability while maintaining the ability to die-cut technically challenging parts.

### Options

#### LT Digital Hard Coated Polyester Film

It is a high-performance overlay film designed for HMI and other printed graphic applications where tight registration tolerance is required. It can be embossed, displays outstanding color acuity when printed, is chemical resistant, and provides an excellent print receptive surface for UV Inkjet printing technology.

#### BioMaster® Anti-microbial Technology

Our reflex LT Digital Hardcoated films provide anti-microbial functionality to continually reduce the growth of bacteria, mold, and fungi; this is achieved by incorporating a silver-based anti-microbial additive from BioMaster®. This anti-microbial additive is especially ideal for touch panels used in hygienic healthcare settings where it is imperative to keep bacteria and mold to a minimum.

### Ideal Applications

HMI, Membrane Touch Switch, Fascia, Durable Label, and Electronic Displays



### Ideal Markets

Medical electronic displays  
 Medical membrane touch switches  
 Medical human-machine interfaces (HMI)



### Performance Features

- Embossable
- Chemical resistant
- Excellent print receptive surface
- Anti-microbial functionality
- BioMaster is registered with the FDA & approved by the EPABiocidal Products Regulation

### Advantages

- Displays outstanding color acuity when printed
- Durable
- Compatible for UV Inkjet printing technology
- Eliminates growth of bacteria, mold, and fungi
- Registered for use under the Biocidal products regulation (BPR)





Product	Total Thickness	Antimicrobial	Light Transmission	Gardiner Haze	Yellowness Index	Gloss	Switch Test	Tabar Abrader	Cross Hatch Adhesion	Non-Embossed Usage Temperature	Machine Direction	Transverse Direction	Flammability
	µm		%	%		%	million	%	B	°C	%	%	
LT Digital 175	195	BioMaster	87	58	2.2	15	>5	3	4	-160	-0.3	-0.1 +/-0.1	VTM-2
LT Digital 125	145	BioMaster	87	58	2.2	15	>5	3	4	-160	-0.3	-0.1 +/-0.1	VTM-2

Mar Resistance	Volume Resistivity	Surface Resistivity	Dielectric Strength
3H	10 <sup>15</sup> ohm/m	10 <sup>15</sup> ohm/m	125 kV/mm



## Introducing BioMaster®

BioMaster® is an established global brand in antimicrobial technology.



**BIOMASTER™**  
POLYGIENE PRODUCT PROTECTION

An antimicrobial product will restrict the growth of bacteria, fungi and mould. BioMaster® harnesses the antimicrobial properties of silver to create additives for use in almost any material, from plastics and rubber to paints and fabrics, where odour, performance or aesthetics are a concern.

## How It Works

Once BioMaster® has been incorporated into a material it is essentially there to stay. Ionic silver based additives will not lose efficacy due to leaching or migration, and since they are evenly dispersed throughout the material even scratches and abrasion do not affect the antimicrobial performance.

## The Benefits of BioMaster



**Powerful antimicrobial action**  
Polygiene BioMaster eliminates 99.9% of microbes.



**Long-lasting, 24/7 protection**  
Provides non-stop protection for a product's entire lifespan.

















**Safe to use in any environment**  
Polygiene BioMaster contains no nanotechnology and is non-leaching.














**Versatile and easily integrated**  
Our solution can be added to almost any material, making it suited to a wide range of products and industries.








## Did You Know?







The antimicrobial performance of the end product is confirmed by independent testing to the international standards JIS Z 2801 and ISO 22196.









Inspire® Excellence Polyurethane Films									
Product Description	PU Film Thickness	Casting Liner Release Force	MVTR Upright	Tensile Strength	Elongation	Product Codes & Available Colours			
	(µ)	(N/25mm)	(g/m2/24hrs)	(N/25mm)	(%)				
PU Film on a Paper Liner	15µ	0.12	3500	12.5	440				
PU Film on a Polyester Liner	20µ	0.12	3000	20	475				
Film on Paper Liner (good bond with Hydrocolloids)	25µ	0.11	1550	22	550				
PU Film on a Paper Liner	30µ	0.12	2600	27.5	475				
PU Film on a Filmic Liner	30µ	0.12	2300	35	500				
PU Film on a Filmic Liner	30µ	0.12	2600	27.5	475				
PU Film on a Paper Liner	60µ	0.15	1700	77	825				

Inspire® Excellence Polyurethane Films & Flood Coated Adhesive									
Product Description	PU Film Thickness	Casting Liner Release Force	MVTR Upright	Tensile Strength	Elongation	Typical Adhesion to Steel	Adhesive Deposit	PSA Liner Release	Product Codes & Available Colours
	(µ)	(N/25mm)	(g/m2/24hrs)	(N/25mm)	(%)	(N/25mm)	(g/m2)	(N/25mm)	
PU Film on a Filmic Liner with High Tack PSA on a Paper Liner	30µ	0.15	600	27.5	475	19	40	0.05	
PU Film on a Filmic Liner with Medium Tack PSA on a Paper Liner	30µ	0.15	600	27.5	475	13	40	0.05	 
PU Film on a Filmic Liner with Breathable PSA on a Paper Liner	30µ	0.14	1200	35	500	19	9	0.04	
PU Film (no liner) with Medium Tack PSA on a Paper Liner	60µ	No Liner	450	>50	800	13	40	0.06	

Inspire® Excellence Polyurethane Films & Pattern Coated Adhesive									
Product Description	PU Film Thickness	Casting Liner Release Force	MVTR Upright	Tensile Strength	Elongation	Typical Adhesion to Steel	Adhesive Deposit	PSA Liner Release	Product Codes & Available Colours
	(µ)	(N/25mm)	(g/m2/24hrs)	(N/25mm)	(%)	(N/25mm)	(g/m2)	(N/25mm)	
PU Film on a filmic Liner with a Medium Tack 75% Pattern Coated PSA on a Paper Liner	20µ	0.12	2500	20	475	17	18	0.06	
PU Film on a filmic Liner with a Medium Tack 75% Pattern Coated PSA on a Paper Liner	30µ	0.2	1500	27.5	475	17	18	0.1	 
PU Film on a filmic Liner with a High Tack 50% Pattern Coated PSA on a Paper Liner	30µ	0.2	2000	27.5	475	8	12	0.1	
PU Film on filmic liner with a High Tack 50% Pattern Coated PSA on a Paper Liner	15µ	0.2	3300	12.8	430	10	13	0.06	 

Inspire® Ultra Breathable Polyurethane Films						
Product Description	PU Film Thickness (µ)	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m2/24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Product Codes & Available Colours
PU Film on a Filmic Liner	20µ	0.08	3600	16	630	
PU Film on a 1 Sided Siliconised Paper Liner	20µ	0.07	3600	16	600	
PU Film on a 2 Sided Siliconised Paper Liner	20µ	0.07	3600	16	600	
PU Film on a 2 Sided Siliconised Paper Liner	30µ	0.04	3600	16	600	
PU Film on a 1 Sided Siliconised Paper Liner	30µ	0.1	3200	22	570	
PU Film on a Paper Liner	30µ	0.1	3200	22	570	 

Inspire® Ultra Breathable Polyurethane Films & Pattern Coated Adhesive									
Product Description	PU Film Thickness (µ)	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m2/24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Typical Adhesion to Steel (N/25mm)	Adhesive Deposit (g/m2)	PSA Liner Release (N/25mm)	Product Codes & Available Colours
PU Film on a Filmic Liner with a Medium Tack 75% Pattern Coated PSA on a Glassine Liner	20µ	0.1	2850	16	600	9	19	0.06	
PU Film on a 1 Sided Siliconised Paper Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	20µ	0.09	2850	16	600	9	19	0.06	
PU Film on a 2 Sided Siliconised Paper Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	20µ	0.09	2850	16	600	9	19	0.06	
PU Film on a 1 Sided Siliconised Paper Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	30µ	0.12	2450	22	570	9	19	0.06	
PU Film on a Siliconized Paper Liner with a Medium Tack 75% Pattern Coated PSA on a 30µ Polyester Liner	30µ	0.12	2450	22	570	9	19	0.06	 

Inspire® Foam									
Product Description	PU Film/Foam Thickness (µ)	Casting Liner Release Force (N/25mm)	MVTR Upright (g/m <sup>2</sup> /24hrs)	Tensile Strength (N/25mm)	Elongation (%)	Product Codes & Available Colours			
15µ Clear PU Film & 235µ Pink PU Foam on a paper casting Liner	250µ	0.15	2500	25	450		 Inspire 7250 (Beige)	 Inspire 7251 (White)	 Inspire 7252 (Pink)
30µ PU film & 235µ PU foam on a paper casting liner	250µ	0.15	1500	40	550	 Inspire 7256 (Light Brown)			
15µ Clear PU Film & 235µ Pink PU Foam on a paper casting Liner	250µ	0.15	4000	21	400				 Inspire 7255 (Pink)
15µ Clear PU Film & 385µ Pink PU Foam on a paper casting Liner	400µ	0.15	1500	30	450		 Inspire 7240 (Beige)	 Inspire 7241 (White)	 Inspire 7242 (Pink)

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