

With two ISO-certified manufacturing facilities in North America and in Europe—each offering multiple coating lines, cleanrooms and laboratories—we are committed to be the world's leading provider of coated materials.

Contact:
 Lesley Winchester (US)
 +1.704.845.4419
 Gwen Simms (UK)
 +44.1978.660241

Our technical staff is continually developing new techniques, formulas and applications to add competitive advantages for our customers' products. Through close co-operation with major OEM's, together with our own patented technologies, we apply complex coatings to various substrates to meet the most demanding applications. And all communication is tightly controlled by confidentiality.

Manufacturing Capabilities

Exopack Advanced Coatings' broad and flexible manufacturing capabilities enable it to fully exploit its technology platforms in delivering cost-effective products and services to diverse markets:

- Exopack Advanced Coatings has eleven coating machines
- Ten of these machines are in class 1000 clean rooms
- Maximum width is 64" or 1.6 mtrs

Coating Methods

- Direct
- Post metered
- Slot die
- Gravure
- Knife over roll
- Lab and pilot coating

Converting Capabilities

- Slitting, sheeting, edge trimming, packaging
- Printing

Exopack Holding Corporation

Managing 19 production facilities strategically positioned across North America and the United Kingdom, as well as a global network of alliance partners, Exopack is an established leader in the development, manufacture, and sourcing of plastic and paper flexible solutions for various consumer and industrial end-use markets. Exopack Holding Corp. is an affiliate company of Sun Capital Partners, Inc. For more information, please visit www.exopack.com or call (877) 447-3539.

Touching Everyday Life



Markets	Products and Services
Conductives	Delivers high-performance conductive films and foils used in a variety of applications that include batteries, capacitors, interactive whiteboards, medical electrodes and other electrode applications, as well as medical diagnostic products.
Electronic Films	We apply complex coatings to challenging substrates in the creation of high performance electronic components. Our products under the Tecnilith® brand feature diazo phototool and artwork protection film.
Optical Films	Under the brand name StratFX™ our range of hardcoats, advanced laminates and optically clear adhesives have been developed to meet the needs for dynamic display, window film and protective overlaminates including high gloss furniture foils.
Medical Films and Foams	Beyond the manufacture of conductive films for medical electrodes and other medical applications, Exopack offers an advanced line of medical products under the brand name inspire™ . From standard films, foams, laminates and highly breathable adhesives to ultra thin films, and new developments in infection control the inspire™ range offers cost effective business to business solution to wound dressing manufacturers seeking an understanding, proactive and knowledgeable partner.
Press Supplies	Coated films used in the manufacture of analog and digital flexographic plates. Minimal thickness variation, control of film flatness, low point defect counts and smooth, uniform coatings are key attributes that our materials and experience offer.
Coating Services	From small scale trial facilities up to large scale production operation we offer a range of coating processes.



USA

Tel +1 800 688 9171 Fax +1704 845 4307
 700 Crestdale Street, Matthews NC 28105

EUROPE

Tel +44 (0) 1978 660241 Fax +44 (0) 1978 661452
 Wrexham Industrial Estate, Wrexham, LL 13-9UF, UK

exopackadvancedcoatings.com

(This Product Information Sheet is not intended by Exopack Advanced Coatings for use as a Product Specification or Warranty for the Product.)



Conductive Films and Foils

z-flo™ films and foils use a “z” directed or “through” conductivity. Lightweight and low cost, z-flo™ conductive films and conductive coated foils are capturing the attention of designers and manufacturers of electric car batteries, capacitors, electronic whiteboards and more. One compelling reason: z-flo™ films and foils are unaffected by humidity, chemicals and high temperatures.



z-flo™ conductive vinyl

z-flo™ for Whiteboards

In electronic whiteboards, z-flo™ films provide an economical solution that enables manufacturers to locate an x-y co-ordinate. Two layers of conductive film separated by an air gap will form a contact point when touched together.

In electronic whiteboard and other applications, z-flo™ can be supplied with pressure sensitive adhesive on one side to facilitate a lamination process. It is possible to order these films with silver tracks as electrical busbars. The manufacturing process of electronic whiteboards can be greatly simplified through the use of these multi-functional products.



z-flo™ vinyl with silver coating

Exopack Advanced Coatings also produces superior dry erase white films used for surfaces in marker boards and electronic whiteboards. These dry erase films can be supplied with the z-flo™ conductive film coating already applied to the reverse side.

z-flo™ Current Collectors

As a current collector component in a battery or capacitor, z-flo™ films and foils give manufacturers a prefabricated component with exceptional properties. The conductive coating of z-flo™ conductive foils is securely anchored to the foil surface and provides enhanced adhesion, thermal lamination and chemical resistance to subsequent layers. Recent work indicates that coated foils, such as z-flo™ may assist in preventing thermal run away at the cathode. z-flo™ can be single or double side coated with a conductive coating.



z-flo™ conductive foils

Conductive Primed Aluminum Foil Current Collector

Product Number	Aluminium mils/microns	Resistivity ohms/sq	Sides Coated
z-flo™ 2650	1/25.4	<20	1
z-flo™ 2651	0.5/12.7	<20	2
z-flo™ 2652	1/25.4	<20	2
z-flo™ 2653	0.5/12.7	<20	1
z-flo™ 2654	0.7/17.8	<20	2

Vinyls

F = Film, P=Paper. Products with no designation can be provided as free conductive film or on paper.

Product Reference	Silver Layers	Sides Coated	Total Caliper	Resistivity at 24° C	Basis Weight	Tensile Strength	Elongation at Break	Storage Modulus @25°C	Shrinkage	Tg Temperature	Shelf Life
			T6139	T-1178	TAPPI-410	T-0432	T-0432	DMA	T-0431	ASTM-D3418	
z-flo™ 1064F*	NA	NA	4.7mils 119µ	<240 ohms/sq	161 g/m ²	N/A	N/A	N/A	<0.25%@150°C	N/A	≥ 1 year
z-flo™ 1150P	NA	NA	1.6mils 41µ	<135 ohms/sq	49 g/m ²	>5 lbs	>142%	5.7 (x10 ⁸ Pa)	<5%@150°C	-12°C	≥ 1 year
z-flo™ 1152P	NA	NA	1.2 mils 30µ	<175 ohms/sq	37 g/m ²	>3.7 lbs	>113%	3.2 (x10 ⁸ Pa)	<5%@150°C	-10°C	≥ 1 year
z-flo™ 1153P	NA	NA	1.8mils 44µ	<100 ohms/sq	56g.m ²	>5.30 lbs	>90%	5.3 (x10 ⁸ Pa)	<5%@150°C	-12°C	≥ 1 year
z-flo™ 2264P	NA	NA	2.3mils 58µ	<120 ohms/sq	73g/m ²	>7.30 lbs	>155%	4.1 (x10 ⁸ Pa)	<5%@150°C	-9 °C	≥ 1 year
z-flo™ 2267	NA	NA	2.3mils 58µ	<95 ohms/sq	72g/m ²	>7.30 lbs	>123%	4.1 (x10 ⁸ Pa)	<5%@150°C	-9 °C	≥ 1 year
z-flo™ 2252	NA	NA	4.0mil 102µ	<65 ohms/sq	124.06 g/m ²	> 10.5 lbs	>134%	4.6 (x10 ⁸ Pa)	<5%@150°C	-10°C	≥ 1 year

*Supplied directly on 3.8 mil PET film.

Silver Coating

Can be provided as free conductive film or on a release paper.

z-flo™ 4201	2	1	2.7mils 67µ	<1.5 ohms/sq	117.3 g/m ²	>8.0 lbs	115%	7.1 (x10 ⁸ Pa)	<5%@150°C	-12°C	≥ 1 year
z-flo™ 4204	1	1	2.6mils 66µ	<1.8 ohms/sq	85 g/m ²	>7.52 lbs	>117%	6.3 (x10 ⁸ Pa)	<5%@150°C	-10°C	≥ 1 year
z-flo™ 4206	1	1	2.3 mils 58µ	<25 ohms/sq	74 g/m ²	>7.8 lbs	>148%	6.4 (x10 ⁸ Pa)	<5%@150°C	-9°C	≥ 1 year
z-flo™ 4401	2	1	4.1mils 104µ	<2 ohms/sq	143 g.m ²	>12.2 lbs	>85%	6.8 (x10 ⁸ Pa)	<5%@150°C	-9°C	≥ 1 year
z-flo™ 4402	1	1	4.0mils 102µ	<1 ohms/sq	134.3 g/m ²	>14.6 lbs	>103%	9.1 (x10 ⁸ Pa)	<5%@150°C	-11°C	≥ 1 year