

The logo for UltraFlex Systems Incorporated features the word "ULTRA" in a bold, black, sans-serif font, followed by a stylized sailboat icon with a red, white, and blue sail. To the right of the icon is the word "FLEX" in the same bold, black, sans-serif font. Below "ULTRA" and "FLEX" is a black horizontal bar containing the words "SYSTEMS INCORPORATED" in white, uppercase, sans-serif font. The background of the entire page is a white circle with large, overlapping, semi-transparent shapes in dark green, light green, red, yellow, and blue.

UltraGreen Medias



UltraGreen medias are composed of any Ultraflex material that is deemed to be environmentally friendly. Whether recyclable, biodegradable, carbon-neutral, or cleanly manufactured, these medias can be added to any portfolio where preserving the environment is desired.

We are currently and continuously putting forth efforts to minimize our and our client's carbon-footprint. The products outlined below are examples of some of the integral steps we have taken to do this. As further innovations and strategic developments arise, we will continue to keep you abreast of our advancements towards sustainability in the digital printing industry.

## PVC

PVC has a remarkable balance of properties; it is strong, resistant to oil, chemicals, sunlight and weathering. PVC is also flame resistant, easily decorated and low in cost. PVC can be and is being recycled all over the world and for your convenience, we have the proper resources at our disposal that can accommodate to this PVC recycling effort; we can provide you with facilities in your area which recycle our products regularly. PVC or vinyl recycling has historically been difficult to perfect on the industrial scale. But within the last decade, several viable methods for recycling or upcycling PVC have been developed.

We are also the first and only provider of biodegradable PVC for years. Before BIOflex<sup>®</sup>, PVC had been immortal in the landfill; no degradation was found after decades of landfill burial. BIOflex has been engineered to be the first truly environmentally friendly, biodegradable PVC. We have developed a nontoxic formula that, at very low levels, enables landfill decomposition of BIOflex PVC. In the landfill, the carbon and hydrogen content of BIOflex are partly consumed by the biomass organisms and partly released as methane from fermentation. In a well managed landfill, methane is harvested for use as fuel. The chlorine content of BIOflex is partly consumed and partly converted to soluble chloride; this has value as fertilizer since it makes soil nitrogen more rapidly available to plants. In experiments using landfill into which BIOflex had decomposed as compost in potting soil, plants and vegetables sprouted more rapidly than in controls. Today, patented BIOflex has earned its reputation as both an eco-friendly option for sign media, but also as a true-performer when in application.



## Polyethylene

Polyethylene (our PolyLite<sup>™</sup>) is recyclable and extremely lightweight (3.5 oz & 4.5 oz in stock) and it therefore lessens the amount of harmful fuel emissions put forth by transportation vehicles which carry media across the globe. PolyLite was incorporated into our line to support the outdoor advertising industry by offering an environmentally friendly alternative to heavy vinyl's and non-degradable papers for billboards. This media performs and prints (UV inks only) just as well as its counterparts and is easily installed because of its weight, texture and durability. PolyLite has a silver colored back side which helps to avoid hazing and shadowing effects that you may get with standard front-lit materials; this silver backer creates a blackout effect.

## Textile

All of our textiles are earth-friendly. The polyester used in the manufacturing process is made of 20% recycled polyester and is 100% recyclable. By starting the design process at the molecular level, MBDC and EPEA we are able to analyze every ingredient in polyester and choose dyestuffs, auxiliary chemicals, and a catalyst that are safe and environmentally sound. This creates the opportunity to transform recycling from a costly waste management strategy into a system that eliminates the concept of waste. We also implement a water-based coating technology into these textiles which is extremely earth friendly; between 75% and 90% of the coatings are biodegradable. Our manufacturing process complies with all ecological certification, exceeding 2020 compliance.

Two textiles in particular couldn't be more "green"; UltraTex<sup>™</sup> Organic and UltraCotton<sup>™</sup>. Since these textiles are both made of 100% natural and organic materials such as Ingeo<sup>®</sup>, plant fibers and cotton, they are innately biodegradable/compostable and recyclable.



## PVC Medias

## Environmental Benefits

### BIOflex® FL

BIOflex® FL is a 15 oz. matte finish, strong, indoor/outdoor, front-lit, biodegradable banner/billboard material for UV, solvent or screen-printing. Very similar in all around performance to Ultima Supreme, BIOflex has one major difference; in landfill conditions (darkness, high heat, moisture and lack of oxygen), it attracts microbes that break down the PVC within 3 to 5 years. BIOflex contains no toxic materials and is tear, fade and fungus resistant. Widths range from 54" - 196".



### BIOmesh™ Coming Soon

BIOmesh™ is a strong, indoor/outdoor, biodegradable mesh for UV or solvent printing. Applications include banners, window or exterior displays, theatrical, tradeshow and enormous building and stadium wraps. It has similar qualities to a standard mesh with regards to printability, fire resistance and durability. BIOmesh contains no toxic materials and its formula is based on the biodegradable technology behind BIOflex.



### SuperPrint® Lite FL

SuperPrint® Lite FL is a 6.5 oz. front-lit scrim banner vinyl. It has a white glossy PVC-coated face and a grey uncoated back-side which allows for easier recyclability than traditional front-lit PVC vinyl. SuperPrint Lite FL can be UV, solvent or screen-printed, is tear and fade resistant, and was formulated to produce true, vibrant, eye-catching colors. SuperPrint Lite FL may be used primarily for outdoor billboard and banner applications for up to 1 year. It is light-weight yet exceptionally strong, durable and flexible, which allows for easy installation. It may also be used indoors for printed signs and banners. Available in widths up to 196".



## Polyethylene Medias

## Environmental Benefits

### PolyeLite®

PolyeLite® is available in a 3.5 oz and 4.5 oz weights. 100% recyclable front-lit Polyethylene (PE) substrate. PolyeLite is used primarily for outdoor billboard and banner applications for up to 1 year printed with UV inks. It may also be used indoors for UV printed signs and banners. PolyeLite PE has a white face and silver back and was formulated to produce true, vibrant, eye-catching colors.



## Textile Medias

## Environmental Benefits

### UltraCotton™ C200

UltraCotton™ C200 is 7.3 oz. and is woven 100% natural cotton with a water-based coating on one side. The light linen structure and crease free characteristics make it ideal for art reprographics, scenic backdrops, theatrical and tradeshow events. This natural cotton material is recyclable and biodegradable. It is recommended for indoor use only. Available in widths ranging from 61" to 198".



### UltraTex™ Organic U230

UltraTex™ Organic U230 is 6.8 oz. and is woven from 100% organic plant fiber. This unique product is biodegradable, recyclable and is naturally fire retardant. It can be used in back-lit or front-lit applications both indoor and short-term outdoor. Is compatible with UV and screen-printers. Available in widths ranging from 61" to 198".



### UltraTex™ Organic C265

UltraTex™ Organic C265 is 7.7 oz. and is woven from 100% organic plant fiber with a water-based coating on one side. This unique product is biodegradable, recyclable and is naturally FR retardant. It can be used in back-lit or front-lit applications both indoors and short-term outdoors. Is compatible with solvent, UV and screen-printers. Available in widths ranging from 61" to 98".



#### Key



Recyclable



Biodegradable



Compostable

## Technical Specifications

Product	Weight	Yarn dtex English	Yarn dtex Metric	Tensile Strength lbs/inch	Tear Strength lbs	Thickness	Flame Resistance			
							NFPA 701	CA	NYC (MEA)	B1
BIOflex®	15 oz/yd <sup>2</sup> (510 g/m <sup>2</sup> )	1000 x 1000	1100 x 1100	274 x 251	56 x 56	16 mil	YES	YES	YES	YES
BIOmesh™	13 oz/yd <sup>2</sup> (440 g/m <sup>2</sup> )	1000 x 1000	1100 x 1100	333 x 281	38 x 21	13 mil	YES	YES	YES	YES
SuperPrint® Lite FL	6.5 oz/yd <sup>2</sup> (220 g/m <sup>2</sup> )	840 x 840	845 x 845	167 x 161	46 x 23	10 mil	Testing in progress			

Product	Construction	Coating Thickness	Total Weight	Tensile Strength lbs/inch	Tear Strength lbs	Thickness	Flame Resistance			
							NFPA 701	CA	NYC (MEA)	B1
PolyeLite™ 3.5	8 x 8	1.25 mil	3.5 oz/yd <sup>2</sup>	125 x 110	35 x 30	5.5 mil	NO	NO	NO	NO
PolyeLite™ 4.5	10 x 8	1.50 mil	4.65 oz/yd <sup>2</sup>	185 x 156	60 x 57	7.5 mil	NO	NO	NO	NO

Product	Weight	Solvent	Eco Solvent	UV	Dye-Sub	Thickness	Flame Resistance			
							NFPA 701	CA	NYC (MEA)	B1
UltraCotton® C200	7.3 oz/yd <sup>2</sup> (245 g/m <sup>2</sup> )	YES	YES	YES	NO	12 mil	YES	NO	YES	YES
UltraTex™ Organic U230	6.8 oz/yd <sup>2</sup> (230 g/m <sup>2</sup> )	NO	NO	YES	NO	14 mil	YES	YES	YES	YES
UltraTex™ Organic C265	7.7 oz/yd <sup>2</sup> (260 g/m <sup>2</sup> )	YES	YES	YES	NO	14 mil	YES	NO	NO	YES

## Recycling Resources

[www.earth911.com](http://www.earth911.com)

[www.recyclingplasticwaste.com](http://www.recyclingplasticwaste.com)



This document has been printed on recycled paper

PVC \* Textiles \* Carpet \* Wallscapes \* Rigid \* SAV \* Specialty

All statements, technical information and recommendations about Ultraflex products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Ultraflex products are sold with the understanding that the purchaser has independently assumed responsibility in determining the suitability of such product for its purposes.

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