

Argotec[®]
Film



Argotec[™] Antimicrobial Film

SWM is the world leader in extrusion of Thermoplastic Polyurethane (TPU) films. Now SWM offers an uncoated, high-performance, aliphatic film with an additional antimicrobial hard coat top layer. Formulated with antimicrobial properties that protect against growth of mildew and bacteria on the film, Argotec™ Antimicrobial Film is designed for use on a variety of shared surfaces that may regularly be in contact by multiple users.

Argotec Antimicrobial Film has been effectively tested against standard JISZ-2801 and provides excellent performance. It is ideal for protection along with excellent UV resistance, superior durability, stain resistance and consistent optical clarity with a high gloss finish.

SWM has supplied high gloss aliphatic, or non-yellowing, Argotec TPU film in surface protection applications for over 15 years. Typically, Argotec film is coated with an optically clear, permanent/removable acrylic pressure sensitive adhesive (PSA) by Argotec customers. The TPU film contains no processing aids that may affect adhesive anchorage or printability, maximizing coating yield.

SWM offers the following Antimicrobial Films:

- Argotec 46510-AM
- Argotec 49510-60DV-AM

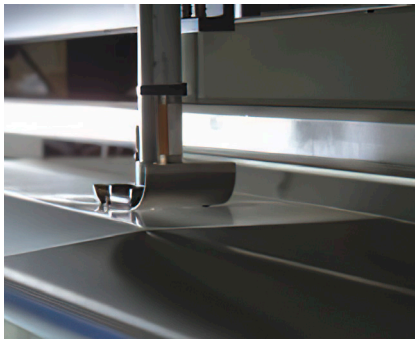
Learn more at www.swmintl.com or contact us at ams@swmintl.com today to learn how you can partner with SWM to start innovating **essential** solutions for your applications.



World Class Manufacturing



Optically clear aliphatic TPU film is produced in an 8,000 sf hard-walled white room



Online gauge inspection allows for real-time adjustments



In-line visual camera inspection ensures consistent quality

World Class Manufacturing:

- Security of supply with manufacturing capacity in North America, Europe & Asia
- PPF Industry leader in high quality TPU films
- Digital in-line gauge control and photographic inspection systems to ensure the best quality film
- Hard wall clean rooms in all locations
- Customizable products to meet a variety of application needs

Antimicrobial testing data provided for information only. SWM makes no direct or implied claims that this product will protect users or provide other health benefits.

No finished product incorporating this product may make any public health claims without proper regulatory approvals. User is responsible for ensuring finished product complies with federal, state and local laws relating to food contact uses.



High-Touch, Low Clean Applications:

- Mobile device screens (phones, laptop computers, hand-held devices, etc.)
- Kiosks, POS (Point of Sale) displays, interactive displays & ticket/billet machines
- Public utility & transportation shared objects (hand holds, grab bars, etc.)
- Water cooler & office break room equipment
- Touchscreens & electronic displays
- Vending machines

Features	Benefits
Formulated with antimicrobial properties that protect against odor & stains	Protects the film against growth of bacteria & molds
Self-healing & scratch resistance	Long lasting & highly durable to maintain original appearance
High gloss & light transmission	Superior appearance with gloss finish
Superior film gauge & gel control	Operational efficiency during coating process
Local manufacturing capabilities	Just in time delivery & easy inventory management
UV & stain resistance	Maintain surface appearance & clarity through different environments and aging
Multiple options in product portfolio	Customize to end application with variety of width & gauge options

Typical Properties & Capabilities

Property / Capability	Test Method	Argotec 46510-AM	Argotec 49510-60DV-AM
Gauge Ranges	-	1.5 mil (38 micron)	4.0 - 6.0 mil (100 - 150 micron)
Width Ranges	-	49" - 51" (1254 mm - 1295 mm) 56" - 62" (1422 mm - 1575 mm)	
Roll Length	-	14" to 22" (356 to 559 mm) outside diameter*	
Resin Hardness	ASTM D-2240	Shore 60D	Shore 85-90A with 60D top layer
Resin Ultimate Tensile	ASTM D-412	9400 psi (65 MPa)	9000 psi (62 MPa)
Resin Ultimate Elongation	ASTM D-412	370%	405%
Gloss at 60 degrees	ASTM D523	90	
Light Transmission	ASTM D1003	93%	
Haze	ASTM D1003	2%	
Accelerated Aging QUVA (340nm)		< 2.0 delta YI up to 2500 hours	
Antimicrobial Activity	JIS Z-2801	Pass	

* Depends on film gauge, packaging and plant location



The SWM global infrastructure provides strategically placed experts and facilities to respond quickly and efficiently to rapidly evolving market needs. Argotec Film is manufactured in Greenfield, MA, Gilberdyke, UK and Suzhou, China. SWM is focused on advancing the products for interlayer, optical and surface protection films, advanced materials and technologies in our ISO 9001, ISO 14001, ISO 50001 and OHSAS 18001 certified facilities. Our diverse product lines are recognized worldwide for their superior performance in a variety of applications.



SWM locations shown (from top to bottom) Greenfield, MA, USA; and Gilberdyke, UK and Suzhou, China

About SWM

SWM is a leading global performance materials company. We use natural fibers, resins, and polymers to provide essential solutions that enhance product performance and help our customers win in a variety of industries and applications. For further information, please visit our web site at www.swmintl.com.

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