

Argotec™ 49510-60DV-AM

Antimicrobial Surface Protection Film

General Description

SWM is the world leader in extrusion of TPU films. Argotec™ 49510-60DV-AM is an uncoated high performance aliphatic thermoplastic polyurethane (TPU) film with an additional antimicrobial TPU hard coat top layer. Formulated with antimicrobial properties that protect against growth of mildew and bacteria on the film, the Argotec 49510-60DV-AM is designed to protect a variety of shared surfaces that may regularly be in contact by multiple users. These applications include electronic displays, touch screens, vending machines, and other shared surfaces. It has been effectively tested against standard JISZ-2801 and provides excellent performance. Argotec 49510-60DV-AM film is ideal for protection with antimicrobial, excellent UV resistance, superior durability, stain resistance, and consistent optical clarity with a high gloss finish.

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.



Key Benefits:

- Formulated with antimicrobial properties that protect against growth of bacteria
- Maintain surface appearance with UV and stain resistance (non-yellowing)
- Longevity from high durable, self-healing, scratch and chip resistance
- Superior appearance with paint like gloss finish
- Operational efficiency during coating process from superior film gauge and gel control

Typical Properties:

Property / Capability	Test Method	Typical Value
Gauge Ranges	N/A	4.0 - 6.0 mil (100 - 150 micron)
Width Ranges	N/A	49" - 51" (1254 mm - 1295 mm) 56" - 62" (1422 mm - 1575 mm)
Roll Length	N/A	Up to 22" (559mm) outside diameter*
Resin Hardness	ASTM D-2240	Shore 90A with 60D top layer
Antimicrobial Activity	JIS Z-2801	Pass
Resin Ultimate Tensile	ASTM D-412	9000 psi (62 MPa)
Resin Ultimate Elongation	ASTM D-412	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

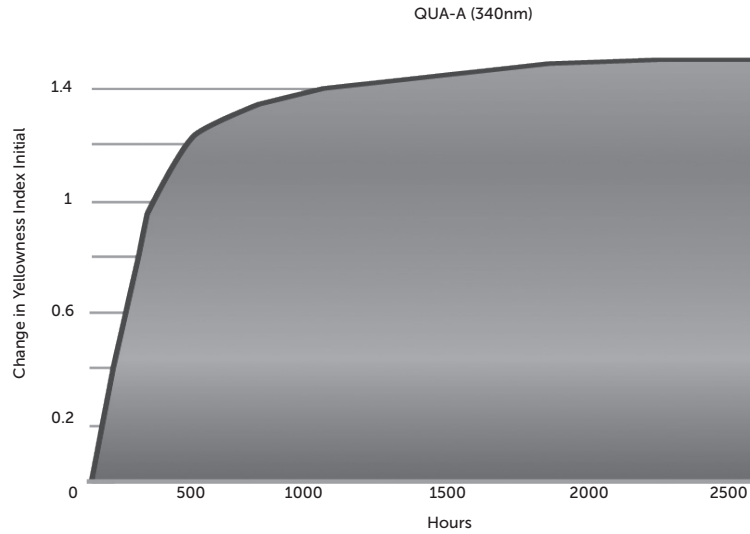
Advanced
Materials
& Structures

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*Depends on film gauge, packaging, and plant location

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Accelerated Aging:



QUV using w 340 bulb, 8 hours 70° C, 4 hours 50° C condensation

UV Transmission Curve:

