TRINSEO™

AVONITE™ Flex

Solid Surface

For Hot Tub & Swim Spa Applications

Connecting ideas with solutions

aristechsurfaces.com trinseo.com

AVONITE™ Flex

Luxury Awaits...

AVONITE™ Flex Solid Surface is a recent addition to Trinseo's material solutions portfolio resulting from the 2021 acquisition of Aristech Surfaces LLC, a leading manufacturer of surface and design materials with over 50 years of experience, 30 of which dedicated to the solid surface industry.

AVONITE™ Flex is a patent-pending surface formulation that combines the luxurious look and feel of matte solid surface with the functionality of thermoformable resin.

The result? An innovative material, ideal for the hot tub market. Imagine the possibilities with AVONITE™ Flex – The perfect synergy of maximum functionality and progressive design.

Like sister brands ACRYSPA™ and ACRYSWIM™, AVONITE™ Flex is highly resistant to staining and chemical cleaners, allowing it to withstand the intensive cleaning involved in hot tub and swim spa maintenance. Moreover, its non-porous, bacteriostatic surface limits the growth of micro-organisms, making it a perfectly hygienic material.

Easy to Maintain. Easy to Clean.

A sophisticated palette with benefits to the spa owner

Characteristics

AVONITE™ Flex Solid Surface offers all the desired functional properties, chemical and UV resistance, hygienic, non-porous, etc. while maintaining the key repairability and resurfacing quality, to enjoy for years to come.

Supplied in 3.2 mm caliper, in monolithic and co-laminated with ABS for strength supporting OEM manufacturing efficiency gains.

Monolithic sheets in solid colors are offered in any length up to 108 inches wide (2.743 m) and offered in coiled reels for cut-to-size in-line manufacturing. Co-laminated sheets are available in solid colors up to 105 inches (2.667 m) wide.

Wave patterns are available in 3.2 mm only, up to 106 inches (2.692 m) in monolithic and up to 103 inches (2.616 m) in co-laminated sheet.

Super White 8707

This vibrant shade of white brightens any hot tub with a crisp, clean and timeless aesthetic.

Euro White 8704

The clean, sophistication of this cool-toned white has a light gray hue which lends for a serene hot tub experience.

Pure Alabaster 8701

A matte, opaque classic white inspired by the mineral aspect of raw gypsum that offers a fresh, refined look to any outdoor surface, while coordinating effortlessly with a variety of modern finishes and designs.

Alabaster Wave 8705

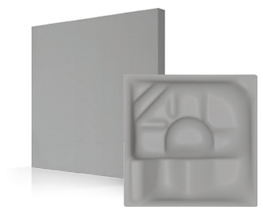
With a subtle touch of grey, this luxurious matte surface adds a layer of dimension to the white-base sheet, providing a flowing linear pattern throughout.

Pure Ebony 8702

Modern and unique, this rich black is one of the latest bold trends for premium finishes in hot tub applications.

COCO LUXE 8717

Delivers a warm, sophisticated appearance inspired by natural textures.



SILKEN 8716

Offers a refined, contemporary look with a soft, elegant visual effect.

AVONITE™ Flex offers 2X the slip resistance of standard glossy acrylic*

A choice, affluent collection for OEMs, fabricators and designers alike, in search of premium lavish materials. Lightweight handling, hygienic non-porous surface properties, manufactured within the U.S.A. with a luxurious matte aesthetic and offered in a boutique collection of classic, timeless hues.

The latest sought-after solid surface aesthetic now in the most malleable of forms, now available to service the premium needs of the hot tub and swim spa market.

MADE IN **USA**

AVONITE™ Flex is a market-disrupting, premiere material that infuses the flowing pattern and pigmented hue within the full depth of this designer surface. Never achieved prior, AVONITE™ Flex offers the ability to pull and thermoform to tight detail, while maintaining the premium matte finish, even within the deepest of draws.

*Results from third-party lab DCOF testing of AVONITE™ Flex vs I-300 Acrylic Sheet (standard glossy acrylic)

TECHNICAL PROPERTIES

Property	Result	Unit	Test Method
General			
Nominal Thickness	0.125 (3.2)	inch (mm)	–
Density	1.30	g/cm^3	ASTM D 792
Water Absorption	0.19	%	ASTM D 638
Mechanical			
Tensile Strength	7,590	psi	ASTM D 638
Tensile Modulus	594,000	pst	ASTM D 638
Tensile Elongation	1.60	%	ASTM D 638
Flexural Strength	13,320	psi	ASTM D 790
Flexural Modulus	533,000	psi	ASTM D 790
Barcol Hardness	53	–	ASTM D 2583
Rockwell Hardness (M Scale)	99	–	ASTM D 785
Charpy Impact	1.98	ft-lbs/in.	ASTM D 6110
Ball Impact (½ lb. ball, no failure) supported	> 150	inches	NEMA LD3-3.8
Ball Impact (½ lb. ball, no failure) unsupported	36	inches	NEMA LD3-3.8
Thermal			
DTUL @ 264 psi	190	°F	ASTM D 648
Coefficient of Thermal Expansion	3.26 x 10^{-5}	in/in/°F	ASTM D 696
Surface			
Consistency of Color (Same Sheet)	Passes	–	ISFA 2-01
Light Resistance	No effect	–	ISFA 2-01
Cleanability / Stain Resistance	Passes	–	NEMA LD3-3.4
Stain Resistance	Passes	–	ANSI/ICPA SS-1
Food Zone Use	Approved	–	NSF 51

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