

PATENT
PENDING

AVONITE®
FLEX

SOLID SURFACE
FOR HOT TUBS AND SWIM SPAS

2022 GLOBAL
ENGLISH



Luxury Awaits...

Pioneer within the wellness industry for over 50 years

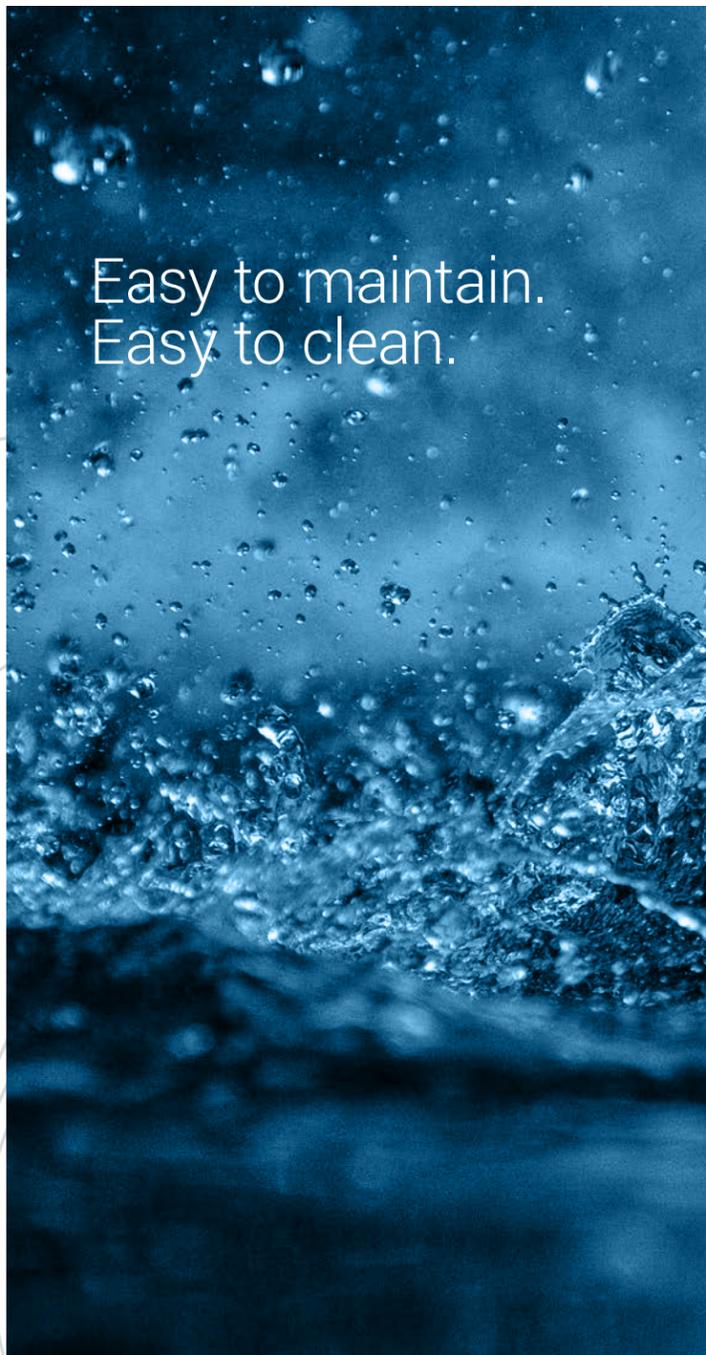
Aristech Surfaces LLC is a leading manufacturer of surface solutions for a wide range of applications, serving the wellness market: hot tubs, spa baths, sanitaryware, and more. With over 50 years of experience, 30 of which dedicated to the solid surface industry, it draws on its expertise to produce reliable, top quality products and push the limits to develop material innovations that provide not only manufacturing efficiencies for our OEM partners, but pass through the qualities to benefit the end user.



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

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





Easy to maintain.
Easy to clean.

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.

A sophisticated palette with benefits to the spa owner

CHARACTERISTICS

AVONITE® Flex new material offers all the desired functional properties, chemical and UV resistance, hygienic, non-porous, etc. while maintaining the key repair-ability 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. Sheets are offered in any size up to 108 inches wide (2.7 m) and offered in coiled reels for cut-to-size in-line manufacturing.



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

The subtlety within our AVONITE® Flex ultra-matte finish, mimicking that of natural stone. The complement to the pure inspiration within your outdoor living decor, combined with soft, warm touch will drape you in the luxurious escape you've been seeking.



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 Ebony 8702

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





Maximum functionality meets progressive design



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 thermo-form to tight detail, while maintaining the premium matte finish, even within the deepest of draws.

A choice, affluent collection for OEM's, 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

TECHNICAL PROPERTIES

PROPERTY	RESULT	UNIT	TEST METHOD
General			
Nominal Thickness	0.125 (3.2)	inches (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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