

Physical Properties – 3.2mm

Aristech Surfaces has offered a full line of premium materials for use in manufacturing bathtubs, wash basins, shower walls/trays, sinks/bowls and more. As a pioneer in material innovations, Aristech Surfaces LLC has recently unveiled a leading-edge designer surface material known simply as AVONITE® Flex. Application can range from hot tub, bath, sanitaryware and architectural applications, to specialty market applications and more.

AVONITE® Flex is an innovative material formulation infused within the full depth of this

designer surface, offering the ability to pull and thermoform to tight detail, while maintaining the premium matte finish even within deep draws. A premiere collection for OEM's, fabricator, and designers, of premium continuous cast specialty materials promoting lightweight handling, hygienic non-porous surface properties, manufactured with a luxurious matte aesthetic and offered in a boutique collection of white hues. The latest sought-after aesthetics in the most malleable of forms.

For over 50 years, Aristech Surfaces LLC has produced and marketed a broad range of surface and design materials for bath, shower, architectural applications to provide quality, cost-conscious and high-end aesthetic solutions sought by OEMs, architects, designers and fabricators for industries around the globe.

Property	Units	3.2mm	Test Method
General:			
Nominal Thickness	inches	0.125	—
Density	g/cm ³	1.30	ASTM D 792
Water Absorption	%	0.19	ASTM D 570
Mechanical:			
Tensile Strength	psi	7,590	ASTM D 638
Tensile Modulus	psi	594,000	ASTM D 638
Tensile Elongation	%	1.60	ASTM D 638
Flexural Strength	psi	13,320	ASTM D 790
Flexural Modulus	psi	533,000	ASTM D 790
Barcol Hardness	—	53	ASTM D 2583
Rockwell Hardness (M Scale)	—	99	ASTM D 785
Charpy Impact	ft-lbs/in.	1.98	ASTM D 6110
Ball Impact (½ lb. ball, no failure)	inches	>150	NEMA LD3-3.8
Supported			
Ball Impact (½ lb. ball, no failure) Unsupported	inches	36	NEMA LD3-3.8
Thermal:			
DTUL @ 264 psi	°F	190	ASTM D 648
Coefficient of Thermal Expansion	in/in/°F	3.26x10 ⁻⁵	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