



## TECHNICAL BULLETIN #206

### Physical Properties - Avonite® Ice White 8064 (Translucent)

Aristech Surfaces' Avonite Acrylic Solid Surface "Specialty Blend Solid Surface" sheet products in a variety of attractive colors provide exceptionally weatherable, strong, non-porous, scratch and stain resistant material for architectural designs and utilitarian surfaces.

PROPERTY	UNITS	12 MM	TEST METHOD
<b>General</b>			
Nominal Thickness	mm	12mm	-
Density	g/cm <sup>3</sup>	1.60	ASTM D 792
Water Absorption	%	0.05	ASTM D 570
<b>Mechanical</b>			
Tensile Strength	psi	4,450	ASTM D 638
Tensile Modulus	psi	1,255,000	ASTM D 638
Tensile Elongation	%	2.20	ASTM D 638
Flexural Strength	psi	8,450	ASTM D 790
Flexural Modulus	psi	1,017,000	ASTM D 790
Barcol Hardness	-	55	ASTM D 2583
Rockwell Hardness (M Scale)	-	92	ASTM D 785
Charpy Impact	ft-lbs/inch	1.12	ASTM D 6110
Ball Impact (½ lb. ball, no failure)	Inches	>150	NEMA LD3-3.8
<b>Thermal</b>			
DTUL @ 264 psi	°F	212	ASTM D 648
Coefficient of Thermal Expansion	in/in/°F		ASTM D 696
Boiling Water Resistance	-	No Effect	ISFA 2-01
High Temperature Resistance	-	No Effect	ISFA 2-01
Reaction to Fire	-	Class B	ASTM E 84
Combustion Toxicity	-	98	Pittsburgh Protocol
Total volatile Organic Compounds	µg/m <sup>2</sup> /hr	69.1	ASTM D 5116

PROPERTY	UNITS	12 MM	TEST METHOD
<b>Surface</b>			
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	ANZI/ICPA SS-1
Bacterial Resistance	-	No growth	ASTM G 22
Fungi Resistance	-	No growth	ASTM G 21
Food Zone Use	-	Approved	NSF 51

*For cautions and other information relating to handling of and exposure to this product, please see the applicable material safety data sheet published by Aristech Surfaces*

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