



## TECHNICAL BULLETIN #207M

### Physical Properties – Avonite® 8094 Snowfall FR (M1)

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	8094	Units	Test method
<b>General</b>			
Nominal Thickness	12	mm	-
Density	1.75	g/cm <sup>3</sup>	ASTM D 792
Water Absorption	0.04	%	ASTM D 570
<b>Mechanical</b>			
Tensile Strength	46	MPa	ASTM D 638
Tensile Modulus	9,963	MPa	ASTM D 638
Tensile Elongation	0.60	%	ASTM D 638
Flexural Strength	65	MPa	ASTM D 790
Flexural Modulus	9,894	MPa	ASTM D 790
Barcol Hardness	62	-	ASTM D 2583
Charpy Impact	58.7	J/m	ASTM D 6110
Ball Impact (½ lb. ball, no failure)	300	cm	NEMA LD3-3.8
<b>Thermal</b>			
DTUL @ 264 psi	98	°C	ASTM D 648
Coefficient of Thermal Expansion	3.5x10 <sup>-5</sup>	cm/cm/°C	ASTM D 696
Boiling Water Resistance	No Effect	-	ISFA 2-01
High Temperature Resistance	No Effect	-	ISFA 2-01
Reaction to Fire	Class M1	-	NFP 92-501
<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	Does not support microbial growth	-	ASTM G 22
Fungal Resistance	Does not support microbial growth	-	ASTM G 21

*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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