



PHYSICAL PROPERTIES AVONITE® ECLIPSE 8240

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
General			
Nominal Thickness*	mm	12	-
Density	g/cm ³	1.73	ASTM D 792
Water Absorption	%	0.05	ASTM D 570
Mechanical			
Tensile Strength	MPa	45.5	ASTM D 638
Tensile Modulus	MPa	10,640	ASTM D 638
Tensile Elongation	%	0.50	ASTM D 638
Flexural Strength	MPa	82.7	ASTM D 790
Flexural Modulus	MPa	8,970	ASTM D 790
Barcol Hardness	-	65	ASTM D 2583
Rockwell Hardness (M Scale)	-	92	ASTM D 785
Charpy Impact	J/m	55.8	ASTM D 6110
Ball Impact (½ lb. ball, no failure)	cm	350	NEMA LD3-3.8
Thermal			
DTUL @ 264 psi	°C	98	ASTM D 648
Coefficient of Thermal Expansion	cm/cm/°C	3.5 x 10 ⁻⁵	ASTM D 696
Boiling Water Resistance	-	No Effect	ISFA 2-01
High Temperature Resistance	-	No Effect	ISFA 2-01
Reaction to Fire	-	Class A	ASTM E 84
Combustion Toxicity	-	98	Pittsburgh Protocol
Total volatile Organic Compounds	µg/m ² /hr	69.1	ASTM D 5116
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	ANZI/ICPA SS-1
Bacterial Resistance	-	No growth	ASTM G 22
Fungi Resistance	-	No growth	ASTM G 21
Food Zone Use	-	Approved	NSF 51





Note: for cautions and information on exposure to any Aristech Surfaces' product, please see the applicable material safety data sheet.

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