

Physical Properties - STUDIO Collection® Architectural Resin Sheets - 6mm

The STUDIO Collection® line of handcrafted materials provide products in a variety of colors, patterns and translucencies. A one-of-a-kind, impermeable surface collection known for strength, unparalleled aesthetics, scratch and stain resistance,

PROPERTY	UNITS	GLASS / TRANSLUCENT	RECYCLED / NON- TRANSLUCENT	Test method
General				
Nominal Thickness	mm	6mm	6mm	-
Density	g/cm ³	1.26	1.59	ASTM D 792
Water Absorption	%	0.08	0.04	ASTM D 570
Mechanical				
Tensile Strength	psi	5,476	5,089	ASTM D 638
Tensile Modulus	psi	634,000	1,279,000	ASTM D 638
Tensile Elongation	%	0.90	0.44	ASTM D 638
Flexural Strength	psi	7,100	7,500	ASTM D 790
Flexural Modulus	psi	571,100	1,122,100	ASTM D 790
Barcol Hardness	-	48	57	ASTM D 2583
Rockwell Hardness (M Scale)	-	107	101	ASTM D 785
Charpy Impact	ft-lbs/inch	0.78	0.55	ASTM D 6110
Ball Impact (½ lb. ball, no failure) Supported	Inches	30	36	NEMA LD3-3.8
Thermal				
DTUL @ 264 psi	°F	155	162	ASTM D 648
Coefficient of Thermal Expansion	in/in/°F	2.9x10 ⁻⁵	2.1x10 ⁻⁵	ASTM D 696
Boiling Water Resistance	-	No Effect	No Effect	ISFA 2-01
High Temperature Resistance	-	No Effect	No Effect	ISFA 2-01
Flame Spread Index	-	90	5	ASTM E 84
Smoke Generation Index	-	>450	300	ASTM E 84
Combustion Toxicity	-	19.3	62.3	Pittsburgh Protocol
Total volatile Organic Compounds	µg/m ² /hr	13.9	3.9	ASTM D 5116

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Surface				
Consistency Of Color (Same Sheet)	-	Passes	Passes	ISFA 2-01
Light Resistance	-	No Effect	No Effect	ISFA 2-01
Cleanability/Stain Resistance	-	Passes	Passes	NEMA LD3-3.4
Stain Resistance	-	Passes	Passes	ANZI/ICPA SS-1
Bacterial Resistance	-	No growth	No growth	ASTM G 22
Fungi Resistance	-	No growth	No growth	ASTM G 21
Food Zone Use	-	Approved	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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8/5/2020