

Physical Properties - STUDIO Collection®

Aristech Surfaces' STUDIO Collection "Specialty Blend" architectural resin sheet products in a variety of attractive colors and patterns provide strong, non-porous, scratch and stain resistant material for architectural designs.

PROPERTIES	UNITS	GLASS / TRANSLUCENT	RECYCLED / NON- TRANSLUCENT	TEST METHOD
GENERAL				
Nominal Thickness	mm	12mm	12mm	-
Density	g/cm ³	1.30	1.60	ASTM D 792
Water Absorption	%	0.04	0.05	ASTM D 570
MECHANICAL				
Tensile Strength	psi	2,300	3,300	ASTM D 638
Tensile Modulus	psi	660,000	1,039,000	ASTM D 638
Tensile Elongation	%	0.34	0.65	ASTM D 638
Flexural Strength	psi	4,100	5,570	ASTM D 790
Flexural Modulus	psi	655,000	976,000	ASTM D 790
Barcol Hardness	-	48	53	ASTM D 2583
Rockwell Hardness (M Scale)	-	104	98	ASTM D 785
Charpy Impact	ft-lbs/inch	0.50	0.70	ASTM D 6110
Ball Impact (½ lb. ball, no failure) Supported	Inches	>150	>150	NEMA LD3-3.8
Ball Impact (½ lb. ball, no failure) Unsupported	Inches	54	96	NEMA LD3-3.8
THERMAL				
DTUL @ 264 psi	°F	161	170	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
	-	No Effect	No Effect	ISFA 2-01
Flame Spread Index	-	180	20	ASTM E 84
Smoke Generation Index	-	>450	155	ASTM E 84
Combustion Toxicity	-	19.3	62.3	Pittsburgh Protocol
Total volatile Organic Compounds	µg/m ² /hr	13.9	3.90	OASTM D 5116
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
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