DONNÉES TECHNIQUES & PROPRIÉTÉS DE PERFORMANCE

Épaisseur Plaque Standard	1/2" (12mm), 1/4" (6mm)	
Dimensions Plaque Standard	1/2" (12mm)	30" x 144" (762mm x 3,658mm)
Dimensions Panneau Mural Standard	Epaisseur 1/4" (6mm)	36" x 96" (914mm x 2,438mm) 48" x 96" (1214mm x 2,438mm) 60" x 96" (1,518mm x 2,438mm)

Épaisseur Plaque Standard	1/2" (12mm)	
Dimensions Plaque Standard	1/2" (12mm)	36" x 120" (914mm x 3,048mm)

	Acrylic Solid Surface Classe I		Studio Classe I		Studio Classe III	
NEMA LD 3 2000 Réaction à la Coloration	Indice de Nettoyage	Indice de Coloration	Indice de Nettoyage	Indice de Coloration	Indice de Nettoyage	Indice de Coloration
Eau Distill®e	0	■	0	■	0	■
Eau du Robinet	0	■	0	■	0	■
Alcool Ethylique, Solution ¨ 50%	0	■	0	■	0	■
Alcool Isopropylique, Solution ¨ 70%	0	■	0	■	0	■
VM&P Naphtha/Alcool Ethylique, Solution 50/50	0	■	0	■	0	■
Dissolvant pour Ongles	0	■	0	■	0	■
Ac®tone	0	■	0	■	0	■
Solution de Pain de Savon, 5% Dans l'Eau	0	■	0	■	0	■
D®tergent Maison, 5% Dans l'Eau	0	■	0	■	0	■
Ammoniac Maisona	0	■	0	■	0	■
Sauce Tomate	0	■	0	■	0	■
Huile Végétale	0	■	0	■	0	■
Phosphate Trisodique, Solution à 1%	0	■	0	■	0	■
Café	0	■	0	■	0	■
Thé	0	■	0	■	0	■
Lait Entier	0	■	0	■	0	■
Acide Citrique, Solution à 10%	0	■	0	■	0	■
Moutarde Jaune	0	■	0	■	0	■
Povidone Iodée à 10%	3	■	1	■	0	■
Distilled Vinegar	0	■	0	■	0	■
Lipstick (Red)	1	■	1	■	2	■
Washable Ink (blue)	1	■	1	■	2	■
Grape Juice	0	■	0	■	0	■
Red Food Dye	1	■	1	■	2	■
Beet Juice	0	■	0	■	0	■
Merthiolate	1	■	1	■	2	■
Wax Crayon	1	■	1	■	2	■
Shoe Polish (Black Paste)	3	■	1	■	2	■
Ball Pen Ink	3	■	1	■	3	■
Felt Pen Ink	3	■	1	■	2	■
Black Permanent Marker	3	■	1	■	3	■
#2 Pencil	3	■	1	■	2	■
Supermarket Stamp Ink (Purple)	1	■	1	■	2	■

0 Rating – Staining reagent removed with a cellulose sponge moistened with water.
1 Rating – Staining reagent removed with a cellulose sponge moistened with water and commercial cleanser.
2 Rating – Staining reagent removed with a stiff nylon bristle brush with a commercial cleanser and baking soda.
3 Rating – Staining reagent removed with a cotton ball saturated with acetone.
4 Rating – Staining reagent removed with a cotton ball saturated with hypochlorite bleach.
5 Rating – Stains remaining after the previous cleaning steps are rated 5.

■ *= No Effect*

Property	Typical Results Acrylic Solid Surface	Typical Results Studio Collection Class I	Typical Results Studio Collection Class III	Test Method
General				
Thickness Tested	0.500"	0.500"	0.500"	–
Specific Gravity	1.6	1.6	1.3	ASTM D-792
Water Absorption (24hrs.)	0.04%	0.03%	0.04%	ASTM D-570
Mechanical				
Tensile Strength	4,000 psi	3,700 psi	2,300 psi	ASTM D-638
Tensile Modulus	1,100,000 psi	1,200,000 psi	730,000 psi	ASTM D-638
Tensile Elongation	2.1%	0.38%	0.34%	ASTM D-638
Flexural Strength	8000 psi	6500 psi	4100 psi	ASTM D-790
Flexural Modulus	1,100,000 psi	1,200,000 psi	720,000 psi	ASTM D-790
Barcol Hardness	60	60	45	ASTM D-2583
Rockwell Hardness	86	99	105	ASTM D-785
Un-notched Izod Impact	1.40 ft.lbs./inch	0.67 ft.lbs./inch	0.42 ft.lbs./inch	ASTM D-4812
Notched Izod Impact	0.14 ft.lbs./inch	0.15 ft.lbs./inch	0.15 ft.lbs./inch	ASTM D-256
Ball Impact (1/2 lb. ball)	>150 Inches	>150 Inches	>150 Inches	NEMA LD3-3.8
Total Volatile Organic Compound	6.91 µg/m²/hr	3.9 µg/m²/hr	13.9 µg/m²/hr	ASTM-D5116
Thermal				
DTUL @ 264 psi	200 °F	180 °F	175 °F	ASTM D-648
Coefficient of Thermal Expansion	2.3 X 10^{-5} in./in.°F	2.1 X 10^{-5} in./in.°F	2.9 X 10^{-5} in./in.°F	ASTM D-696
Boiling Water Resistance	No Effect	No Effect	No Effect	ISSFA SST 8.1-00
High Temperature Resistance	No Effect	No Effect	No Effect	ISSFA SST 9.1-00
Flame Spread	<25	<25	>75	ASTM E 84
Smoke Generation	<25	<25	>450	ASTM E 84
Combustion Toxicity	96 (solid colors) 67 (patterns)	62.25	19.33	Pittsburgh Protocol (LC_{50} Test)
New York City Adm. Code 27-131*				
Flame Spread	20	20	180	MEA 64-96-M
Smoke Density	155	155	>450	MEA-142-96-M
Surface				
Cleanability / Stain Resistance	Pass	Pass	Pass	NEMA LD3-3.4
Stain Resistance	Pass	Pass	Pass	ANSI Z 124.3
Consistency of Color (same sheet)	Pass	Pass	Pass	ISSFA SST 2.1-00
Light Resistance	No Effect	No Effect	No Effect	ISSFA SST 7.1-00
Food Zone Use	NSF 51 Approved	NSF 51 Approved	NSF 51 Approved	NSF
Fungal/Bacterial Resistance	Does not support microbial growth	Does not support microbial growth	Does not support microbial growth	ASTM G-21
HIV-Resistance	Disinfected surface does not support HIV	Disinfected surface does not support HIV	Disinfected surface does not support HIV	Protocol 61-074-1
Aircraft: FAA Part 23 or 25	Acceptable	Acceptable	Acceptable	FAR 25.853
Federal Motor Vehicle Safety Stnd.	Pass	Pass	Pass	
Canadian Motor Vehicle Safety Stnd.	Pass	Pass	Pass	

* For specific part numbers, go to www.avonitesurfaces.com

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