



STAINING AND CHEMICAL PERFORMANCE

affinity[™] surfaces

SOLID SURFACE MATERIAL
TECHNICAL SPECIFICATIONS



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TEST	RESULTS	STANDARD
Distilled Water	PASSED 0	NEMA LD3-2005
50/50 Ethyl Alcohol	PASSED 0	NEMA LD3-2005
Acetone	PASSED 0	NEMA LD3-2005
Household Ammonia	PASSED 0	NEMA LD3-2005
10% Citric Acid	PASSED 0	NEMA LD3-2005
Vegetable Oil	PASSED 0	NEMA LD3-2005
Fresh Coffee	PASSED 0	NEMA LD3-2005
Fresh Tea	PASSED 0	NEMA LD3-2005
Ketchup	PASSED 1	NEMA LD3-2005
Yellow Mustard	PASSED 1	NEMA LD3-2005
10% Povidone Iodine	PASSED 5	NEMA LD3-2005
Black Permanent Marker	PASSED 3	NEMA LD3-2005
#2 Pencil	PASSED 2	NEMA LD3-2005
Wax Crayon	PASSED 2	NEMA LD3-2005
Black Paste Shoe Polish	PASSED 2	NEMA LD3-2005

PERFORMANCE PROPERTIES

TEST	RESULTS	STANDARD
ISO 9001 Certification	Yes	
Water Absorption Coefficient, 24 hrs	0.05% (0.5 thick)	ASTM D570
Hardness Test, Rockwell M Scale	116	ASTM D785
Hardness Test, Barcol Compressor	58	ASTM D2583
Izod Impact Strength, ft-lbs/in of notch	0.32 ft.lbf/in	ASTM D256
Tensile Strength, psi	4,500	ASTM D638
Tensile Modulus, psi	163,893	ASTM D638
Ball Drop, 0.5 lb. steel ball	63	NEMA LD-3
Flexural Strength, PSI	7,000	ASTM D790
Flexural Elastic Modulus, PSI	1.35x10 ⁶	ASTM D790
Elongation	3.10%	ASTM D638
Thermal Expansion Coefficient (*C)	3.4x10 ⁻⁵	ASTM D696
Weatherability, 1,000 hrs	No effect	ASTM D1499
Color Stability, 200 hrs	No effect	NEMA LD-3
Thermal Resistance	No effect	NEMA LD-3
Boiling Water Resistance	No effect	NEMA LD-3
Stain Resistance	Pass rating 41	ANSI Z124
Flammability	Class 1	UBC 8-1
Flame Spread	9	ASTM E84
Smoke Density	15	ASTM E84
Wear and Cleanability	Pass	ANSI Z124.3 & Z124.6
Fungal/Bacterial Resistance	No Growth	ASTM G21