

**TECHNICAL DATA SHEET**

Durasein<sup>®</sup> pure acrylic solid surface is tested to industry standards and meet and exceed the requirements.

TEST	METHOD	RESULT
Surface Burning	ASTM E84-08	FSI=15; SDI=10; CLASS A
Flexural Strength	ASTM D790-10A	Flexural Strength (psi) = 9,413
Flexural Modulus	ASTM D790-10A	Modulus of Elasticity (psi) = 1,736,830
Density	ASTM D792-08 B	1.74 g/cm <sup>3</sup> (108.6 lb/ft <sup>3</sup> )
Thermal Expansion	ASTM D696	3.02 x 10 <sup>-5</sup> in/in/°C (1.8 x 10 <sup>-5</sup> in/in/°F)
IZOD Notched Impact Strength	ASTM D256-10 C	2 J/m
Tensile Strength	ASTM D638-10	45.6 MPa / 6,614 psi
Elongation at Break	ASTM D638-10	0.66%
Tensile Modulus	ASTM D638-10	9840 MPa / 1,427,174 psi
Water Absorption	ASTM D570-98(2010)	0.27%
Color Fastness	ANSI Z124.1.2-2005	1.21 Pass
Stain Resistance	ANSI Z124.1.2-2005	Total Rating: 41 Pass
Cleanability & Wear	ANSI Z124.1.2-2005	Dirt Specimen 2.35%, 2.77%, 3.56% Slurry Specimen 0.64%, 1.02%, 1.83%
Cigarette Test	ANSI Z124.1.2-2005	Pass
Chemical Resistance	ANSI Z124.1.2-2005	Pass
Ignition Test	ANSI Z124.1.2-2005	Less than 30 sec. Pass
Thermal Shock Resistance	ANSI Z124.1.2-2005	No cracking, crazing, blistering or spalling Pass
Water resistance	ANSI Z124.1.2-2005	Total Rating 1, Pass
Barcol Hardness	ASTM D2583-07	68
Impact Strength	ASTM D5420-10	Mean Failure Height 872mm Mean Failure Energy 7.70J
Heat Deflection Temperature	ASTM D648-07 B	111.7°C
Fungal Testing/Resistance	ASTM G21	Does not support microbial growth
Bacteria Testing/Resistance	ASTM G22	Does not support bacterial growth
GREENGUARD	UL 2818	Certified
GREENGUARD Gold	UL 2818	Certified

Boiling Water Resistance	NEMA LD3-2000	No Effect
High Temperature Resistance	NEMA LD3-2000	No Effect
Light Resistance (Xenon Arc)	NEMA LD3-2000	No Effect
Toxicity	99 (Solid Colors) 66 (Patterned Colors)	Pittsburgh Protocol Test
NSF 51		Certified

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