Durasein®
Product Data Sheet

DOCUMENT INFO
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Our extraordinary solid surface is a homogenous, stone-like material that is non-porous and non-toxic. Made up of two-thirds natural minerals (alumina trihydrate derived from bauxite) and one-third high performance acrylic resin (polymethyl methacrylate) and pigments. Due to this high mineral content, our material is incredibly dense, yet able to be fabricated with standard woodworking tools. And totally thermoformable.

TEST	METHOD	RESULT
Surface Burning	ASTM E84-08	FSI=15; SDI=10; CLASS A
Flexural Strength	ASTM D790-10A	Flexural Strength (psi) = 10,100
Flexural Modulus	ASTM D790-10A	Modulus of Elasticity (psi) = 1,434,000
Density	ASTM D792-08 B	1.729 g/cm^3 (108 lb/ft^3)
Thermal Expansion	ASTM D696	3.49 x 10 -5in/in/C (2.08 x 10 -5 in/in/°F)
IZOD Notched Impact Strength	ASTM D256-10 C	2 J/m
Tensile Strength	ASTM D638-10	45.9 MPa
Elongation at Break	ASTM D638-10	0.50%
Tensile Modulus	ASTM D638-10	9890 MPa
Water Absorption	ASTM D570-98(2010)	0.10%
Color Fastness	ANSI Z124.1.2-2005	1.21 Pass
Stain Resistance	ANSI Z124.1.2-2005	34 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	0 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	67
Impact Strength	ASTM D5420-10	Mean Failure Height 803mm, Mean Failure Energy 28J
Heat Deflection Temperature	ASTM D648-07 B	111.7°C
Fungal Testing/Resistance	ASTM G21	Does not support microbial growth

TEST	METHOD	RESULT
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	N/A	Certified
Fire Classification	EN 13501-1:2018	B-s1, d0
NF P 92-507-2004	NF P 92-501:1995	M1 Fire Rating