



Durasein® Product Data Sheet

Durasein solid surface is a homogenous, stone-like material that is non-porous and non-toxic. It is composed of two-thirds natural minerals (alumina trihydrate derived from bauxite), one-third high performance acrylic resin (polymethyl methacrylate) and pigments.

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 ⁻⁵ in/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