

DURASEIN® PRODUCT DATA

The following information lists independent test report results for Durasein® 100% Acrylic Products

TEST	METHOD	RESULT
Surface Burning	ASTM E84-08	FSI=15; SDI=10; CLASS A
Flexural Strength	ASTM D790-15	Flexural Strength (psi) = 9,413
Flexural Modulus	ASTM D790-15	Modulus of Elasticity (psi) = 1,736,830
Density	ASTM D792-08 B	1.74 g/cm ³ (108.6 lb/ft ³)
Thermal Expansion	ASTM D696	3.02 x 10 ⁻⁵ in/in/°C (1.8 x 10 ⁻⁵ 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 Z124.3-2005	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 Z124.3-2005	Pass
Chemical Resistance	ANSI Z124.3-2005	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 D2583-13a	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	ASTM G21	Does not support microbial growth
Color Fastness to Light	ISO 105-B02:2014	Better than 6 (Blue Wool Standard)
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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Chemical resistance	GB/T 3810.13-1999	24 hr. No Obvious Change Passed
Stain Resistance	GB/T 3810.14-1999	56, 0.09mm Passed
Tensile Strength	GB/T 2568-1995	43.16 MPa Passed
Bending Strength	GB/T 2570-1995	63.01 MPa Passed
Bending Elastic Modulus	GB/T 2570-1995	9767 Mpa Passed
Impact Strength	GB/T 2571-1995	6.579 KJ/m ² Passed
Density	GB/T 1034-1986	1.74 g/cm ³
Falling Ball Impact Test	GB/T 14485-93	3.1 m
Cigarette Burn Test	GB/T 3810.13-1999	Can be renewed with 400 grit sanding paper Passes
Scratch Resistance		Can be renewed with 400 grit sanding paper Passes
Elongation	GB/T 2570-1995	3.87mm Passed
Water Absorption	GB/T 1034-1986	0.03% Passed
Heat Deflection Temperature	GB/T 1634.1-2004	103°C