

PRODUCT TEST DATA / 01

Material properties

Reported physical, mechanical and analytical results for Wiltcher solid surface.

01 Physical & mechanical properties

PROPERTY / TEST	TEST METHOD	REPORTED RESULT
Hardness	ASTM D-2583-95	58-60
Tensile strength	ASTM D-638-98	4,125
Tensile modulus		1,410,000
Tensile elongation		0.73%
Work to break		8.56
Flexural strength	ASTM D-790	9,870
Flexural modulus		1,330,000
Unnotched impact	ASTM D-256-96a	1.3
Notch impact	ASTM D-256-96a	0.33 Ft - Lb/ In
Specific gravity	ASTM D-729-91	1.71
Water absorption	ASTM D-570-95	0.022

02 Analytical results

PROPERTY / TEST	TEST METHOD	REPORTED RESULT
% Cure by DSC	Analytical	97%
GC head space	Analytical	1030 PPM

03 Material composition

Wiltcher Industries solid surface is a homogeneous thermoset polymer compound, comprised of acrylic and polyester components filled with aluminum trihydrate. All surfaces are nonporous, and the color and pattern run throughout the entire thickness.

PRODUCT TEST DATA / 02

Surface performance

Reported resistance, appearance and flammability results, with slip-resistance data.

04 Resistance & appearance

PROPERTY / TEST	TEST METHOD	REPORTED RESULT
Gloss	NEMA LD 3-3 1513.2	5-20
Wear and clean	ANSI Z124.3	Passes
Abrasion resistance	CS 221-66	No Loss of Pattern
Cigarette resistance	NEMA LD3-3.07	No Effect
Boiled water resistance	NEMA LD3-3.05/3.5	No Effect
High temperature resistance	NEMA LD3-3.06/3.5	No Effect
Chemical resistance	ANSI Z124.3	No Effect
Color stability	ASTM D-792	Slight Effect at 200 Hours
Conductive heat	NEMA LD3-3.08/3.8N	Slight Effect
Stain	ANSI Z124.3	Passes - 43
Flammability	ASTM E-84	Class 1
Oxygen index	ASTM D-2863	0.33

05 Slip resistance

ASTM F-462 | Average static coefficient of friction

ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8	ZONE 9
.26	.25	.27	.28	.24	.25	.25	.26	.27
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Source: Wiltcher Industries, Properties of Solid Surface from Wiltcher Industries. Test references and results are reproduced as supplied. Units and methods not stated in the source have not been added.