

# CORIAN® SOLID SURFACE PERFORMANCE PROPERTIES

## PHYSICAL PROPERTIES

Property	Test	Typical Result
Density	ASTM D792	1.7 g/cm <sup>3</sup>
Approximate weight per square foot 6 mm (1/4")		2.2 lbs.
Approximate weight per square foot 12 mm (1/2")		4.4 lbs.
Thermal Expansion	ASTM E228	3.9 x 10 <sup>-5</sup> m/m °C (2.2 x 10 <sup>-5</sup> in./in.°F)
Hardness - Rockwell "M" Scale	ASTM D785	>85
Hardness - Barcol Impressor	ISO 19712-2 (ASTM D2583)	56

## MECHANICAL PROPERTIES

Property	Test	Typical Result
Flexural Modulus	ASTM D790	1.2 x 10 <sup>6</sup> psi
Flexural Strength		10,000 psi
Tensile Modulus	ASTM D638	1.5 x 10 <sup>6</sup> psi
Tensile Strength		6,000 psi
Tensile Elongation		0.4 % min.
Compressive strength	ASTM C365	16,000 psi

## FITNESS FOR USE

Property	Test	Typical Result
Light Resistance (Xenon Arc)	ISO 19712-2	Pass
Weatherability	ASTM G155	ΔE* <sub>94</sub> <5 in 1,000 hrs.
Ball Impact Resistance: Sheets No fracture—1/2 lb. ball - 6mm	NEMA LD 3-3.8	36 in. (No failure at height)
Ball Impact Resistance: Sheets No fracture—1/2 lb. ball - 12mm		144 in. (No failure at height)
Wear and Cleanability	CSA B45.5-11/ IAPMO Z124-2011	Pass
Stain Resistance		Pass
Stain/chemical-resistance test	ISO 19712-2	Pass
Resistance to cigarette burns		Pass
Resistance to dry heat		Pass
Resistance to wet heat		Pass
Hot/cold cycle water-resistance test		Pass
Load test		Pass
Dimensional stability	ISO 4586-2	Pass
Resistance to surface wear		0.018 % wt./25 revolutions
Fungal Resistance	ASTM G21	ASTM Rating of 0, No observed growth on product at 100x power
Bacterial Resistance	ASTM G22	No observed growth on product at 100x power

*continued on next page*

**FITNESS FOR USE (continued)**

<b>Property</b>	<b>Test</b>	<b>Typical Result</b>
Microbial Resistance	UL 2824 (ASTM D6329)	Highly resistant to mold growth
Dynamic Coefficient of Friction (Slip Resistance)	ANSI A137.1	0.59-0.70 (matte finish under wet conditions)
Water Absorption	ASTM D570	0.05 % wt. 24 hours 0.5 % wt. long term
Boiling Water Resistance	NEMA LD 3-3.5	No visible change
High Temperature Resistance	NEMA LD 3-3.6	No change
Flammability, Surface Burning Characteristics of Building Materials	NFPA 101: Life Safety Code®	Class A
Flame Spread Index Surface Burning Characteristics of Building Materials	ANSI/UL 723 (ASTM E84, NFPA 255)	Flame Spread Index (FSI) <25
Smoke Developed Index Surface Burning Characteristics of Building Materials	ANSI/UL 723 (ASTM E84, NFPA 255)	Smoke Developed Index (SDI) <25
Flame Spread Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials	CAN/ULC-S102.2	Flame Spread Value 0
Smoke Developed. Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials	CAN/ULC-S102.2	Smoke Developed Value 5

Typical results for 12 mm solid colors unless gauge is specified. Properties may vary by aesthetic. These values are not intended for engineering calculations, if precise calculations are required contact DuPont for additional information.

New York City Material Equipment Acceptance (MEA) number is 150-91-M.

Sinks and lavatories meet CSA B45.5-11/IAPMO Z124-2011, ANSI Z124.3 and ANSI Z124.6 standards for plastic sinks and lavatories.

Lavatories are in compliance with HUD Use of Materials Bulletin No. 73a (UM No. 73a) requirements. Sinks and lavatories are in compliance with the International Plumbing Code and the Uniform Plumbing Code for all 50 states of the United States. Sinks and lavatories are in compliance with the National Plumbing Code of Canada.

Additional information on fire performance may be found in K-28300 *Corian® Fire Performance*.

**PLEASE VISIT OUR WEB SITE: WWW.CORIAN.COM OR CONTACT YOUR CORIAN® REPRESENTATIVE FOR MORE INFORMATION ABOUT CORIAN® SOLID SURFACE**

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