

CORIAN® QUARTZ PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES

Property	Test	Typical Result
Density	ASTM D792	2.4 g/cm ³
Nominal Thickness		2 cm and 3 cm
Approximate weight per square foot (2 cm)		10 lbs.
Approximate weight per square foot (3 cm)		15 lbs.
Thermal Expansion	ASTM D696	1.45 x 10 ⁻⁵ m/m°C (8.06 x 10 ⁻⁶ in./in.°F)
Hardness	Mohs Hardness Scale	7

MECHANICAL PROPERTIES

Property	Test	Typical Result
Flexural Strength	ASTM D790	>5,300 psi
Flexural Modulus	ASTM D790	5.3 - 5.7 x 10 ⁶ psi
Flexural Elongation	ASTM D790	>0.1%
Compression Strength (Dry)	ASTM C170	27,300 psi
Compression Strength (Wet)	ASTM C170	24,400 psi

FITNESS FOR USE

Property	Test	Typical Result
Gloss	ANSI Z124	45-50
Colorfastness	NEMA LD 3-3.3	No Effect
Ball Impact Resistance: Slabs No fracture - 1/2 lb. ball -2&3 cm	NEMA LD 3-3.8	164 in (No failure at height)
Wear and Cleanability	CSA B45.5-11/IAPMO Z124-2011	Passes
Stain Resistance	CSA B45.5-11/IAPMO Z124-2011	Passes
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
Microbial Resistance	UL Environment, UL 2824 (ASTM D6329)	Highly Resistant to Mold Growth
Boiling Water Resistance	NEMA LD 3-3.5	None to slight effect
High Temperature Resistance	NEMA LD 3-3.6	None to slight effect
Freeze-Thaw Cycling	ASTM C1026	Unaffected
Point Impact	ANSI Z124.6.4.2.1	Passes
Static Coefficient of Friction (as received)	ASTM C1028	0.89/0.61 (Dry/Wet)
Abrasion Resistance	ASTM C501	139
Water Absorption	ASTM C373	0.12%
Long and Short term	ASTM D570	<0.04%
Moisture Expansion	ASTM C370	<0.01% average

Typical results for 3 cm product unless gauge is specified. Properties may vary by aesthetic. These values are not intended for engineering calculations, if precise calculations are required contact Corian® Design for additional information. New York City Material Equipment Acceptance (MEA) number is 431-00-M.

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FITNESS FOR USE

Property	Test	Typical Result
Flammability	NFPA 101®, Life Safety Code®	Class A
Flame Spread Index (FSI)	ASTM E84, NFPA 255 & UL 723)	FSI = 0 for 3 cm, FSI = 5 for 2 cm
Smoke Developed Index (SDI)	ASTM E84, NFPA 255 & UL 723)	SDI = 40 for 3 cm, SDI =75 for 2 cm
Flame Spread Value (FSV)	CAN/ULC-S102	FSV=0 for 3 cm, FSV=5 for 2 cm
Smoke Developed Value (SDV)	CAN/ULC-S102	SDV=10 for 3 cm, SDV=40 for 2 cm

PLEASE VISIT: WWW.CORIANQUARTZ.COM, OR CONTACT YOUR LOCAL CORIAN® DESIGN REPRESENTATIVE FOR MORE INFORMATION ABOUT CORIAN® QUARTZ.

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