

CORIAN® ENDURA™ PROPERTIES

Technical Features	Reference Standard	Test Results
% Water Absorption	ISO 10545-3	Average value 0.08%
Resistance to Low Concentrations of Acids and Alkalis.	ISO 10545-13	ULA-ULB (Satin/Mineral, ULB (Glossy))
Frost Resistance	ISO 10545-12	Resistant
Scratch resistance	UNI EN 15186:2012 met.B	Class A
Moisture Expansion	ISO 10545-10	0.01% (0.1 mm)
Breaking Strength in N (Thickness < 7.5 mm)	ISO 10545-4	6 mm Average value 1,556 N
Breaking Strength in N (Thickness > 7.5 mm)		12 mm Average value 5,500 N
		20 mm Average value 14,000 N
N/mm ² Flexural Strength Test	ISO 10545-4	6 mm Average value 54.5 N/mm ²
		12 mm Average value 53 N/mm ²
		20 mm Average value 52 N/mm ²
Compression Strength	ASTM C170M-16	Breaking tension 527.9 MPa sample deformation 0.86 mm.
Impact Resistance	EN 14617-9	6 mm Average value 3.16 J
		12 mm Average value 3.03 J
Non-Combustibility	ASTM E136	12 mm – PASS, Weight loss 0.76 %
		20 mm – PASS, Weight loss 0.00 %
Surface Burning Characteristics of Building Materials	ANSI/UL723 (ASTM E84, NFPA 255)	6 mm Flame Spread Index (FSI): 0 Smoke Developed Index (SDI): 30
		12 mm Flame Spread Index (FSI): 0 Smoke Developed Index (SDI): 0
Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials	CAN/ULC-S102.2	6 mm Flame Spread Value: 0 Smoke Developed Value: 1.3
		12 mm Flame Spread Value: 0 Smoke Developed Value: 2.0
Volatile Organic Compound Emission	UL 2818	GREENGUARD
		GREENGUARD Gold
Linear Thermal Expansion	ASTM C372	6.23 x 10 ⁻⁶ /°C (average over -20° to 80°C) 3.46 x 10 ⁻⁶ /°F (average over -4° to 176°F)
Crazing Resistance of Fired Glazed Whitewares by Autoclave Treatment	ASTM C424	No Crazing Observed
Thermal Shock Resistance of Glazed Ceramic Tile	ASTM C484	No visible defects
Resistance of Ceramic Tile to Chemical Substances	ASTM C650-20	No Effect
Standard Test Method for Determination of Mohs Scratch Hardness of Ceramic Tile	ASTM C1895	Mohs Scratch Hardness 7
Standard Test Method for Moisture Expansion of Fired Whiteware Products	ASTM C370-12	Average Moisture Expansion 0.007%

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Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement	ASTM C482-02 (modified)	Substrate: USG Durock ½" Cement Board. Adhesive: Laticrete Tri-Lite Tile and Stone Adhesive Average Bond Strength: 200 psi for 12 mm Corian® Endura™. Failure mode was cohesive failure within mesh backing.
Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile	ASTM C1027-19	Apparent visual difference in gloss or color after 150 revolutions
Relative Resistance to Deep Abrasive Wear of Unglazed Ceramic Tile by Rotating Disc	ASTM C1243-93	Average Volume 53.4 mm ³
Determination of Resistance to Staining	ASTM C1378-20	Satin Finish No Visual Effect after Cleaning Procedure A; Running Hot Water for 5 minutes

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