

Caesarstone Quartz Surfaces Technical Data 20mm

PROPERTY	TEST STANDARD	RESULTS
Water Absorption	ASTM C97 EN-14617-1	≤0.05%
Density	ASTM C97 EN 14617-1	≥2.1 gr/cm ³
Flexural Strength	ASTM C880/C880M-15 EN 14617-2	> 35 MPa > 40 MPa
Dimensional Stability	EN 14617-12	Class A
Impact Resistance	EN 14617-9	> 4.9 L (J)
Compressive Strength	ASTM C170 EN 14617-15	Dry: 219-299 MPa; Wet: 203-274 MPa 157-243 MPa
Abrasion	ASTM C1243-93 EN 14617-4	Volume of chord: V<130 mm ³ Chord length: <25 mm
Freeze-thaw Resistance	ASTM C1026	No obvious damage after 20 freeze-thaw cycles
Stain Resistance	ANSI Z 124.6	Pass
Chemical Resistance	ANSI Z 124.6 EN 14617-10	Pass Class C ₄
Linear Thermal Expansion	ASTM 372 EN 14617-11	<52 x 10 ⁻⁶ per °C
Thermal Conductivity	EN 12664	<1 W/(m·K)
Thermal Shock	EN 14617-6	No visual defects after 20 cycles
Boiling Water Resistance	ANSI NEMA LD3-3.5	No effect
High Temperature Resistance	ANSI NEMA LD3-3.6	No effect
Surface Burning	ASTM E84	Class A - FSI: 0-25; SDI: 0-450
Fire Performance	AS 1530.3:1999	Ignitability Index (0-20): 6-8 Spread of Flame Index (0-10): 0-3 Heat Developed Index (0-10): 2-3 Smoke Developed Index (0-10): 6-7
Fire Classification	EN 13501-1	Wall cladding: B-s1-d0 Flooring and stairs: B-fl-s1