

Technical Data Sheet

Crystalline Silica Free | 20mm

5151 Empira White

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 J
Compressive Strength	ASTM C170 EN 14617-15	Dry/Wet 160-280 MP 160-280 MPa
Abrasion	ASTM C1243-93 EN 14617-4	Volume of chord: V≤270 mm ³ Chord length: <33 mm
Frost Resistance	ASTM C1026	No obvious damage after 150 freeze-thaw cycles
Stain Resistance	IAPMO Z 124-2017, ap.5.11	Pass
Chemical Resistance	IAPMO Z 124-2017, ap.5.15 EN 14617-10	Pass Class C ₄
Linear Thermal Expansion	ASTM 372 EN 14617-11	(25-35) 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) ≤ 8 Spread of Flame Index (0-10) ≤ 5 Heat Developed Index (0-10) ≤ 4 Smoke Developed Index (0-10) ≤ 7
Fire Classification	EN 13501-1	B-s2-d0
Resistance to Fungi	ASTM G21	No fungi growth