

DATA SHEET

Test Performed	Test Standards	Test Results
Water Absorption	ASTM C97	<0.03%
	EN- 14617 - 1	<0.03%
Bulk Density	ASTM C97	2.15-2.46 g/cm ³ or 2150-2460 Kg/m ³
	EN- 14617 - 1	2.15-2.46 g/cm ³
Flexural Strength (Dry)	ASTM C880	>5810 psi (40 MPa)
Flexural Strength (Wet)		>5520 psi (38 MPa)
Flexural Strength	EN- 14617 - 2	31 – 80 N/mm ²
Compressive Strength (Dry)	ASTM C170	>28430 psi (196 MPa)
Compressive Strength (Wet)		>27560 psi (190 MPa)
Impact Strength	EN-14617-9	3.4 – 14.5 Joules
Thermal Expansion	EN-14617-11	16*10 ⁻⁶ – 20.8* 10 ⁻⁶
	ASTM C372	300C - 1000C : 2.8* 10 ⁻⁵ – 4.9* 10 ⁻⁵
Abrasion Resistance	ASTM C241	> 61.2
	EN 14617 - 4	21.2 – 26.5 mm
Freeze-Thaw Resistance	EN-14617-5	0.999
Thermal Shock	ASTM C484	Passes - 5 cycles
Mohs Hardness	EN – 101	6.5-7.5
Slip Resistance	ASTM C 1028-07	Coefficient of friction > 0.5*
Stain Resistance	ASTM C 1378-04	Not Affected: Pass
Surface Burning	ASTM E-84	Class A
Chemical Resistance	EN-14617-10	Class C4
Static Coefficient of Friction	ASTM C1028-07	Dry average- 0.74*
		Wet average- 0.5*
Flame Spread	ASTM E-84	FSI<10 for 3 cm and <15 for 2 cm: Class A
Wear and Cleanability	ASTM Z124 6.5.3	Pass
Cigarette Test	ASTM Z124 6.5.4	Pass
Bond Strength	ASTM C482	240 psi (1.65 MPa)
Modulus of Rupture	ASTM C99	6315 psi (43.54 MPa)

NOTE:*

The values are for polished finish.

These results are indicative only. The values quoted above are average for different Quantum Quartz products of 20mm thickness. The test results may vary depending on the thickness, colours, special Additiives and also the batches of the products and based on grain size of the quartz.