

## PentalQuartz; Technical Characteristics

CHARACTERISTICS	TEST METHOD	PentalQuartz (Range of Values)
Density	ASTM C97 EN 14617-1	2.2-2.4 gr/cm <sup>3</sup> 2.2-2.4 gr/cm <sup>3</sup>
Water Absorption	ASTM C97	≤0.03%
Flexural Strength	ASTM C880 EN 14617-2	6,200 -11,000psi 42.7-75.8 MPa
Dimension Stability	EN 14617-12	Class A
Electrical Stability	EN 14617-13	Volume resistance (R <sub>v</sub> )= 0.9x10 <sup>14</sup> Ω Volume resistivity (ρ <sub>v</sub> )= 4.9x10 <sup>14</sup> Ωm
Impact Resistance	ASTM D1709	27lbs (122N)
Compressive Strength	ASTM C170 EN 14617-15	22,000-28,000 psi 190 – 220 MPa
Abrasion	ASTM C1243	Volume of chord: V=89-194mm <sup>3</sup>
Freeze-Thaw Resistance	ASTM C1026	No defects after 15 freeze-thaw cycles
Mohs Hardness Scale	EN101	6.0-7.0
Microbial Resistance	ASTM D6329 -98 (2003)	Ranking 3: Resistant to Mold Growth
Resistance to Chemical Acids	ASTM C560	Not affected
Slip Resistance at Honed 400	DIN 51130	R9-R10
Determination of resistance to immersion in boiling water	AS 2924.2-7 1998 (EQUIV. TO ISO 4586.2-7 1997)	Effect of surface (rating): 5 (no visible change)
Determination of resistance to dry heat	AS 2924.2-8 1998 (EQUIV. TO ISO 4586.2-8: 1997)	Effect of surface (rating): 5 (no visible change)
Determination of resistance to thermal shock	AS 2924.2-9:1999 (EQUIV. TO ISO 10545-9: 1994)	Specimens showing defects: NIL
Determination of resistance to staining (Procedure A)	AS 2924.2-15: 1998 (EQUIV. TO ISO 4586.2-15: 1997)	Effect of surface (rating): 5 (no visible change)

**NOTE:** *The values quoted above for PentalQuartz are an average range of values of the different products tested and should be considered as an indication only. The test results may vary between colors and different production runs.*

MICROBIAL RESISTANCE:ASTM D6329-98  
Tested and Approved by Green Guard