

STT	Characteristic	Test method	Result
I. PHYSICAL PROPERTIES			
1	Water Absorption (% by weight)	ASTM C97/C97M-09:2009	$\leq 0.05\%$
		EN 14617-1:2013	$\leq 0.06 \%$
2	Apparent Density	ASTM C97/C97M-09:2009	2.2-2.4 g/cm ³
		EN 14617-1:2013	
3	Flexural Strength	ASTM C880/C880M-09:2009	> 40 MPa
		EN 14617-2:2008	
4	Dimension Stability	EN 14617-12:2012	Class A
5	Electrical Stability	EN 14617-13:2013	E. resistance (Rv) = $0.9 \times 10^{14} \Omega$ E. resistivity (pv) = $4.9 \times 10^{14} \Omega\text{m}$
II. DURABILITY			
6	Impact Resistance	ASTM D1709:2015	$\geq 3.0\text{J}$
		EN 14617-9:2005	
7	Compressive Strength	ASTM C170/C170M-09:2009	$\geq 155 \text{ MPa}$
		EN 14617-15:2005	
8	Mohs Scale of Hardness	EN101	6.0 – 7.0
9	Resistance to Deen Abrasion	ASTM C1243:2009	Volume of chord: $V \leq 195 \text{ mm}^3$
		EN 14617-4:2012	
10	Freeze-Thaw Resistance	ASTM C1026:2013	No defects after 25 freeze-thaw cycles
		EN 14617-5:2012	

III. THERMAL PROPERTIES			
11	Thermal shock resistance	EN 14617-6:2012	No visible defects after 20 cycles
12	Determination of resistance to immersion in boiling water	AS 2924.2-7: 1998 (EQUI. TO ISO 4586.2-7: 1997) NEMA LD3-3.5	Effect on surface (rating): 5 (no visible change)
13	Determination of resistance to dry heat (High temperator resistance)	AS 2924.2-8: 1998 (EQUI. TO ISO 4586.2-8: 1997) NEMA LD3-3.6	Effect on surface (rating): 5 (no visible change)
IV. SAFETY, STAIN AND CHEMICAL RESISTANCE AND CLEANBILITY			
14	Determination of resistance to staining (Procedure A)	AS 2924.2-15: 1998 (EQUI. TO ISO 4586.2-15: 1997)	Effect on surface (rating): 5 (novisible change)
15	Microbial Resistance	ASTM D 6329:2015	Ranking 3: Resistant to Mold Growth
16	Chemical Resistance to Acids	EN 14617-10:2012	Class C4
17	Slip Resistance at Honed 400	DIN 51130:2004	R9 – R10
18	Colorfastness	NEMA LD 3-3.3	Passes
19	Weatherability	ASTM G155 ΔE_{ab}^* color change; AST-M G155, cycle 1; 200 hour exposure (Irradiance: 0.35 W/m ² .nm at 340 nm). Max ΔE_{ab}^* color change of 2	Passes
20	Water Blush	ΔE_{ab}^* color change after immersion in 72°C water for 16 hrs. Max ΔE_{ab}^* color change of 2	Passes
21	Cigarette Test	ANSIZ 124.6	Pass



COPA QUARTZ

PRODUCT SPECIFICATION SHEET

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V. OTHER			
22	Residual monomer	ISO 4901	< 500ppm (styrene)