

QUARTZ STONE TEST REPORT

Test items	Test standard	Test results
Specific Gravity	ASTM D792-08	2.4
Water absorption	≤ 0.02%	0.01%
Flatness deviation	≤ 0.5%	0.3mm
Angular deviation	≤ 0.4%	0.4mm
Moh's hardness	≥6	7
Flexural strength(dry)	ASTMD790-07	53.8Mpa
Flexural strength(wet)	ASTM D790-07	53.8Mpa
Compressive strength (dry)	ASTM C1028-07	215Mpa
Compressive strength (wet)	ASTM C1028-07	255Mpa
Appearance quality	Composite standards	Composite standards
Chemical resistance	ANSI Z124,6-07	PASSES
Heat resistance	NEMA LD3 2000 3.5	No effect
High temperature resistance	NEMA LD3 2000 3.5	No effect
Water resistance	NEMA LD3 2000 3.5	No effect
Abrasion resistance	The mass of coating lost from each test sample shall be less than 100 milligrams	The mass of coating lost from each test sample is 80 milligrams
Barcol hardness	≥58(for PMMA)	90
Stain resistance	ANSI Z124,6-07	PASSES
Resistant to ignition by cigarettes	ANSI Z124,6-07	PASSES
Impact test	ANSI Z124,6-07	PASSES
Fungal resistance	ASTM G21-96	No effect
Bacteria resistance	ASTM G22-96	No effect
Flame resistance	≥35	44
Radioactivity(internal exposure)	Grade A≤1.0	0.01,Grade A
Radioactivity(external exposure)	Grade A≤1.3	0.02,Grade A