

Test Description	Test Method	International Standard	Bangladesh Standard	Aura Ceramics Value
Dimensional & surface quality				
Length & width deviation in %	ISO 10545 2	±0.6%	±0.5%	±0.1%
Thickness, deviation in % of average thickness		±5%	±5%	±4%
Straightness of sides, maximum deviation from straightness in %		±0.5%	±0.5%	±0.1%
Rectangularity, maximum deviation in %		±0.5%	±0.5%	±0.2%
Surface flatness, maximum deviation from the surface flatness in % a) centre curvature, related to diagonal; b) edge curvature, related to the work size; c) warpage, related to diagonal		±0.5%	±0.5%	±0.2%
Surface quality		A minimum of 95% of the tiles shall be free from visible defects		Minimum of 98% free from visible
Physical properties				
Water absorption % by weight	ISO 10545 3	≤0.5%	≤0.5%	≤0.2%
Modulus of rupture, in N/mm ²	ISO 10545 4	≥35	≥35	≥40
Resistance to deep abrasion of unglazed tiles: removed in volume, mm ³	ISO 10545 6	Maximum 175	Maximum 175	≤140
Resistance to surface abrasion: of glazed tiles intended for use on floor	ISO 10545 7	Report abrasion class & cycle passed	Report abrasion class & cycle passed	Min. Class II
Coefficient of linear thermal expansion, form ambient temperature to 100°C.	ISO 10545 8	Test method available	Test method available	
Thermal shock resistance	ISO 10545 9	Test method	Test method	Resistant
Crazing resistance for glazed tiles	ISO 10545 11	Required	Required	3 Cycles Passes
Frost resistance	ISO 10545 12	Required	Required	Required
Chemical properties				
Resistance to staining a) glazed tiles; b) unglazed tiles;	ISO 10545 14	For glazed tiles: Min. Class 3; For glazed tile: Manufacturer to state classification	For glazed tiles: Min. Class 3; For glazed tile: Manufacturer to state classification	For glazed tile: Min. Class 3; For unglazed tile: Min. Class 2
Resistance to chemicals: Resistance to low concentrations of acids and alkalis a) glazed tiles ; b) unglazed tiles;	ISO 10545 13	Manufacturer to state classification	Manufacturer to state classification	No damage
Resistance to chemicals: Resistance to low concentrations of acids and alkalis a) glazed tiles ; b) unglazed tiles;	ISO 10545 13	Test method available	Test method available	No damage
Resistance to household chemicals and swimming pool salts a) glazed tiles; b) unglazed tiles;	ISO 10545	Minimum GB Minimum UB	Minimum GB Minimum UB	Minimum GB Minimum UB