

Physical – Visual Properties	ASTM TEST	Industry Standard	US Results
Water absorption	C373	Impervious <0.5%	≤0.1%
Thickness Dimension	C499	Range ± 0.04 Inc. Max.	≤±0.04 Inc.
Facial Dimension	C499	± 0.25 %	≤ ± 0.25%
Warpage average diagonal	C485	±0.40 %	≤ ± 0.40%
Warpage average edge	C485	±0.40 %	≤ ± 0.40%
Wedging	C502	± 0.25 %	≤ ± 0.25%
Bond Strength	C482	≥ 50 psi	≥ 200 psi
Breaking Strength	C648	≥250 lbf	≥ 400 lbf
Hardness (Mohs)	Scratch Test (No regulated)	Range 0 - 10	≥ 7
Visible Abrasion Resistance for Glaze tiles	C1027	No Requirement, Range 0 - 5	Class 4
Frost Resistance	C1026	No sample must show alterations to surface	No evidence of Damage
Chemical Resistance	C650	No Requirement, Range E - A	Class A
Stain Resistance	C1378	No Requirement, Range E - A	Class A*
DCOF	BOT 3000	≥0.42*	≥0.50*
Aesthetic Classification	Visual Evaluation Shade & texture	No Requirement, Range V0 -V4	V2

* All values given for Matte or Honed material etc.