

## KLAVALL TECHNICAL DATA

Physical Properties	ASTM Test	Industry Standards	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 Average	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 Abrasions Resistance for Glaze Tiles	C1027	No Requirement Range 0 – 5	Class 4
Frost Resistance	C1026	No samples 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 Acutest	BOT 3000	≥ 0.42*	≥ 0.42*
Aesthetic Class/Shade Rating	Visual Evaluation Shade & Texture	No Requirement Range V0 – V4	V2

DCOF\*: all values given are for matte or honed material. No values are given for polished material. We do not recommend polished surfaces in areas subject to exposure from grease, oil or water.