

# Tech Specs



Physical Properties	Test	Industry Standards	Iris US Results Colored Body
Water Absorption	ASTM C373	0.5% Maximum	≤ 0.1%
Size			
Calibrated (non rectified)	ASTM C499	• Range of Thickness (inch) 0.040	≤ 0.040
	ASTM C499	• Average Facial Dimension ± 0.50%	≤ ± 0.50%
	ASTM C485	• Warpage ± 75% on any edge	≤ ± 0.75%
	ASTM C485	• Warpage ± 50% on diagonal	≤ ± 0.50%
	ASTM C502	• Wedging ± 0.50%	≤ ± 0.50%
Rectified	ASTM C499	• Range of Thickness (inch) 0.040	≤ 0.040
	ASTM C499	• Average Facial Dimension ± 0.25%	≤ 0.25%
	ASTM C485	• Warpage ± 0.40% on any edge	≤ 0.40%
	ASTM C485	• Warpage ± 0.40% on diagonal	≤ 0.40%
	ASTM C502	• Wedging ± 0.25%	≤ 0.25%
Bond Strength	ASTM C482	50 psi or greater	> 200 psi
Deep Abrasion	ASTM C1243	<175 mm <sup>3</sup>	<150 mm <sup>3</sup>
Hardness (Mohs scale)		No requirement	≥7
Frost Resistance (Freeze/Thaw)	ASTM C1026	No sample must show alterations to surface	No cracking or spalling occurred
Chemical Resistance	ASTM C650	No requirement	Class A
Breaking Strength	ASTM C648	250 lbf or greater	≥400 lbf
Coefficient of Friction (static)	ASTM C1028	No requirement	Per collection

Data taken from representative colored body collection. Individual product testing can be conducted by request.

*Coefficient of Friction: All values given are for matte or honed material. No values are given for polished material. Iris U.S. does not recommend polished surfaces in areas subject to exposure from grease, oil or water. (All values are based on ASTM C1028.)*