

## Sidewall Strips

Sandwich Tech supplies phenolic and ironwood sidewalls, favoring their improved bondability and environmental impact compared to thermoplastics. However, each sidewall excels in different applications. Sidewall materials have differences in weight, hardness, toughness, stiffness, and bondability (shown in that order).

Property	Phenolic BioWalls	Ironwood sidewalls	ABS sidewall (reference)	UHMW sidewall (reference)
Density (g/cc)	1.42	1.08	1.02	0.95
Hardness (Shore D)	92		69	65
Izod impact (ft-lb/in)	3.0	*	7.5	No failure
Modulus of Elasticity (ksi)	1695	2440	305	99
Bondability	Good	Best	Fair	Poor

\*Ironwood is tougher (less brittle) than phenolic. Actual test value coming soon.

### Takeaways:

- With the poor adhesion of thermoplastics, ABS and UHMW sidewalls should be flame treated before lamination
- With their high stiffness, ironwood and phenolic sidewalls increase torsional rigidity
- With their high stiffness and low impact strength, phenolic sidewalls are better suited to race than park skis and boards

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