



The polymer building sheet that lasts a lifetime.

King StarBoard® ST is a unique and advanced, high-density polyethylene building sheet that lasts a lifetime. The polymer sheet is 25% stiffer than the original King StarBoard®. It is a product of a proprietary process called K-Stran™, the most advanced manufacturing process for superior flatness and consistency. King StarBoard® ST has a matte gloss finish on both sides of the sheet. It is environmentally stabilized to withstand the harshest outdoor conditions. King StarBoard® ST will not rust, delaminate or rot when exposed to UV, humidity or water. It is one of our most scratch-resistant polymers, making it an excellent construction material for cabinetry, furniture and architectural partitions. The polymer sheet never needs painting or refinishing, works like wood and is easy to fabricate using common woodworking tools and techniques.



Properties	Units	ASTM	Nominal Values
Density	g/cc	D1505	0.963
Tensile Strength @ Yield	psi	D638	>4,500
Tensile Modulus	psi	D638	318,000
Elongation @ Break	%	D638	>600
Elongation @ Yield	%	D638	8.8
Flexural Modulus	psi	D790	225,000
Flexural Stress @ 5% Strain	psi	D790	4,480
Compressive Properties 10% Strain	psi	D695	4,790
Durometer	Shore D	D2240	69
Tensile Impact	ft.lbs./in. ²	D1822	99
Izod Impact Resistance	ft.lbs./in. ²	D256	1.4
Brittleness Temp.	°C (°F)	D746	<-75°C (<-103°F)
Vicat Softening Temp.	°C (°F)	D1525	132°C (270°F)
Heat Deflection Temp. 66 psi	°C (°F)	D648	84°C (183°F)
Screw and Nail Withdrawal	lbs	D1761	755 & 55
Flammability	Rating	UL94	HB

All values are determined on specimens prepared according to ASTM standards.

Nominal values should not be interpreted as specifications.

King StarBoard® ST is made entirely from FDA and USDA approved material.

King StarBoard® ST meets ASTM D4976.

King StarBoard® ST contains no VOC's.