

KING STARBOARD® ST

Polymer Sheets That Last A Lifetime



- Environmentally stabilized for harsh sun and outdoor environments.
- Made of the finest polymers available, using our proprietary K-Stran® process for superior flatness and consistency.
- Will not rot, swell, splinter or delaminate when exposed to humidity or water.
- Precise tolerances ensure consistent color, thickness and density, even for special gauge thickness and custom orders.
- Special sizes and colors are available upon request.
- Easy to fabricate using standard woodworking tools and requires little or no finishing.
- Durable glossy, matte-textured surface on both sides.
- Sheet masking to protect material during fabrication and transportation.
- Easy to clean and never needs re-finishing. Resistant to the strongest chemicals.
- May be thermoformed to make curves and seamless corners with not effect to the finish.
- Sections and parts can be welded together to form a single, homogeneous component.
- Carries the King StarBoard® brand, trusted for its consistent quality and wide range of proven applications.
- Popular applications include outdoor/indoor cabinets, Locker-rooms, healthcare installations such as, nurses stations, swimming facilities and veterinary clinics.
- Up to 30% recycled content, qualifying it for LEEDS.

The High-Strength, Scratch-Resistant Polymer Building Sheet

King StarBoard® ST is an environmentally friendly, high-density polyethylene sheet that provides a more scratch-resistant surface for many original King StarBoard® applications. A unique and advanced polymer makes the material 25% stronger than King Starboard®. High scratch-resistant makes it an excellent construction material. In addition, its high strength and stiffness makes it desirable for applications where less structural support is available.

King StarBoard® ST has been a big hit in the casual outdoor furniture industry, outdoor kitchen market and the cabinetry industry. Because it is environmentally stabilized, King StarBoard® ST has been developed to withstand the harshest of conditions. It can be used in wet areas that need to be washed often for cleaning, or are regularly exposed to moisture.

King StarBoard® ST along with our King MicroShield™ makes an outstanding antimicrobial sheet, it is a non-toxic antimicrobial upgrade that makes our products stay cleaner between cleaning and is 99.9% effective inhibiting the growth of product-damaging microorganisms, such as, bacteria, algae, and fungi on the sheet. Unlike other antimicrobials, it retains its effectiveness for the lifetime of the sheet without leaching into the environment. The product is EPA registered and listed with the FDA as a modifier to medical devices.

King Starboard® ST with King MicroShield™ has been successfully used in health care applications such as, nurses stations, computer and monitor caddies, and patient beds. Other high traffic areas such as locker rooms in educational facilities and swimming venues are perfect applications for use of King StarBoard® ST with MicroShield™. Fabrication is easily done using common woodworking tools and techniques

Standard Colors



Standard Sheet Thickness

Standard Gauge (*inches*)

1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/2"

Standard Gauges (*mm*)

6.4mm | 9.53mm | 12.7mm | 19mm | 25.4mm | 38mm

Approximate Weight (*lbs*)

40 60 80 120 160 240

Approximate Weight (*kilos*)

18 27 36 54.4 72.6 108.6

Standard Sheet Sizes (*inches*)

48" x 96"

Standard Sheet Sizes (*mm*)

1220mm x 2440mm

Custom sheets sizes, gauges, and colors available upon request

King StarBoard® ST is available in an XL version upon request.

Scratch & Mar Resistance: Internal testing method shows a 295% improvement over non-ST finish.

Physical Properties

Property	Units	ASTM	Nominal Value
Density	g/cc	D1505	.963
Tensile Strength @Yield (PSI)		D638	>4500
Elongation@ Break	%	D638	>600
Flexural Modulus	(PSI)	D790	225,000
Durometer	Shore D	D2240	69
Tensile Impact	ft. lbs./in ²	D2240	115
Vicat Softening Temp	°C	D1525	125
Heat Deflection Temp 66 (PSI)	°C	D648	84
Stiffness in Flexure	(PSI)	D747	125,000



King MicroShield™ is a non-toxic anti-microbial upgrade available in many King Plastic products. It helps our products stay cleaner between cleaning and inhibits the growth of product damaging microorganisms.



King Plastic Corporation has been developing and manufacturing quality polymer sheets, slabs and massive shapes since 1968. The King heritage is always making a tireless commitment to innovation, quality and service. Our comprehensive line of products are manufactured at our state-of-the-art headquarters in North Port, Florida, and distributed worldwide.

King Plastic's Limited Warranty is your money back or replacement of defective material. No other warranties are expressed or implied including merchantability and fitness for a particular purpose.

For additional information visit www.kingplastic.com

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