

**KING
STARBOARD® ST**
Now with King MicroShield™



- Latest technology for protecting the product surface against a broad spectrum of damaging bacteria, algae and fungi by reducing the amount of microbes by 99.99%.
- Microbe cell walls that come in contact with King MicroShield are destroyed on contact without creating opportunities for adaptive or resistant strains to form.
- Antimicrobial agent is active for the life of the product. It is safe and non-toxic. Non-hazardous to ship and handle.
- Antimicrobial agent is EPA-registered and listed with the FDA as a modifier to medical devices.
- Non-leaching. The antimicrobial agent is bonded at the atomic level and integrated throughout the sheet.
- Products made using these polymer sheets are easy to clean, disinfect and keep hygienic using standard cleaning procedures. Constant use of cleaning solutions will not affect the antimicrobial protection to the product.
- Environmentally stabilized for harsh environments. Will not rot, swell, splinter or delaminate.
- Made of the finest polymers available using our proprietary K-Stran™ process for superior flatness and consistency.
- Available in large sheets up to 54" x 96" or 48" x 96". Custom sizes and colors available on request.
- Easy to fabricate with standard woodworking tools. Sheet masking protects gloss finish during transportation and fabrication.
- Thermoform to make curves and seamless corners. Can be welded to form a single, homogeneous structural component.
- Cabinetry qualifies for LEED Green Building Rating System points.

Building Material for a Dangerous World

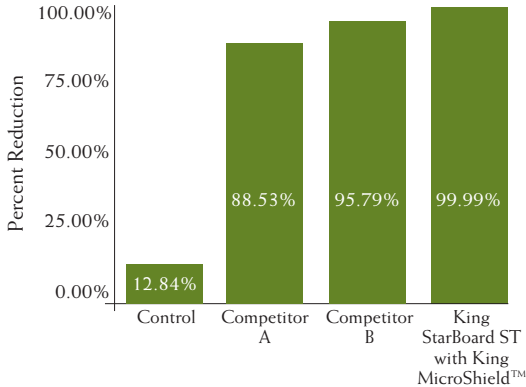
King StarBoard®ST with King MicroShield™ is a high-strength, scratch-resistant polymer building sheet with hundreds of uses in sanitary or sterile environments. The sheets have integrated antimicrobial properties to inhibit the growth of product-damaging microorganisms, including bacteria, algae and fungi on the surface.

Cabinets, casework, furniture and other products made using this polymer have surfaces that are easier to clean and stay cleaner between cleanings for the lifetime of the product. The sheets are easy to fabricate into finished products using standard woodworking tools and techniques, with no finishing required.

Common applications include:

Medical Facilities	Clean Rooms	Rest Rooms
Commercial/Medical Laboratories	Cold Storage	Veterinary Facilities
Outdoor Kitchens	Correctional Facilities	Dental Labs
Pet Facilities	Schools	Prisons
Animal-Science Facilities	Kennels	Pharmaceutical Labs
	Shower Areas	Nursing Homes

Antimicrobial Performance



Notes:

- Test Method: ASTM E2149
- Test performed by Antimicrobial Test Laboratories LLC, an independent testing lab.

Standard Sheet Sizes

Standard Gauge (inches)

1/4 | 3/8 | 1/2 | 3/4 | 1 | 1-1/2

Standard Gauge (mm)

6.4 | 9.53 | 12.7 | 19 | 25.4 | 38.1

Approximate Weight (pounds)

45 | 67.5 | 90 | 135 | 180 | 240

Approximate Weight (kilos)

20.42 | 30.62 | 40.85 | 61.25 | 81.65 | 108.09

Sheet Size (inches)

54 x 96 48 x 96

Sheet Size (mm)

1372 x 2438 1219 x 2438

Custom sheet sizes, gauges and colors available.

Tensile Strength (PSI):

ASTM D638 4500

Flexural Modulus (PSI):

ASTM D790 225,000

Screw Holding Strength (lbs.):

ASTM D1761 787

Izod impact Strength (ft-lbs/in2):

ASTM D256 3.6

Weight (lb/Cubic Inch):

.034

Standard Colors

Black	Mocha Brown
White/White	Sanshade
Evergreen	Everglade
Seafoam	Dolphin Gray

*In stock at many authorized distributors.
Custom colors available.*



Antimicrobial Comparison

	King StarBoard® ST with King MicroShield	Silver-Based Antimicrobial Agent	Triclosan-Based Antimicrobial Agent
Mode of Action	Physically ruptures cell membrane (non-toxic)	Releases ionic free radicals that react with cell DNA and disrupt the critical life processes in the cell	Releases bischlorinated phenol (PCB) for consumption or cellular absorption, causing lethal mutations in the cell
Durability	Permanent/non leaching	Service life 1-3 years	Service life 1-3 years
Adaptive Organisms	Does not promote adaptive organisms	Can create adaptive zones	Can create adaptive zones

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The King StarBoard® family of polymer sheet products was the first building material developed specifically to withstand the constant punishment of the sun, water and weather in harsh environments.

Visit www.KingStarBoard.com for application ideas, fabrication tips, MSDS and other details.

King Plastic Corp. Limit of Warranty is your money refunded or defective material replaced. No other warranties are expressed or implied including warranties of merchantability and fitness for a particular purpose



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