



Healthcare



The Antimicrobial Polymer Sheet

Many of King Plastic Corporation's polymer sheets, slabs and massive shapes are upgradable to King MicroShield® with an advanced antimicrobial technology for protecting the product surface against stain and odor causing bacteria, algae and fungi. The antimicrobial agent is bonded at the atomic level throughout the polymer sheet and will not leach out, this means the antimicrobial will retain its efficacy and does not harm the environment.

Antimicrobial Features and Benefits:

- Effective in protecting the product surface from bacterial degradation.
- Inhibits the ability of product-damaging microbes from growing and spreading on the surface.
- Helps disrupt the cell membrane of the microbe giving it bacteriostatic, fungistatic and algistatic activity. This inhibits the microbe's ability to reproduce and spread on the product.

The additive will protect the product surface from product-damaging bacteria for the life of the product. Studies have shown that surfaces with this additive can reduce the amount of certain product-damaging bacteria by 99.9999%.*

*Disclaimer: This product does not protect users or others against disease-causing bacteria. Always clean this product thoroughly after each use.

KING STARBOARD[®] ST

Upgrade to:  King MicroShield[®]
Antimicrobial Polymer Sheet

Applications

- Cabinetry and Storage Carts
- Clean Rooms
- Day Care Facilities
- Hospitals
- Locker Rooms
- Medical Facilities
- Medical Laboratories
- Mobile Computer Carts
- Nursing Homes
- Nurses Stations
- Rest Rooms
- Veterinary Facilities

Specifications

Standard Sheet Size

in: 48" x 96"

mm: 1219mm x 2438mm

Standard Gauges

in: 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/2"

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

Approximate Weight

lbs: 40 lbs | 60 lbs | 80 lbs | 120 lbs | 160 lbs | 240 lbs

kg: 18kg | 27kg | 36kg | 54.4kg | 72.6kg | 108.6kg

Tolerance information:

Gauges 1/4" up to 1-1/2" ± 5%

Length and width plus only at room temperature

Custom sheet sizes, gauges, and colors available upon request

King StarBoard® ST is available in a custom XL version upon request

Disclaimer: King MicroShield® may affect color. King FlameShield may affect finish and color.

Standard Colors



Black



Mocha Brown



Evergreen



Everglade



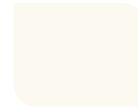
Charcoal Gray



Dolphin Gray



Sansshade



Seafoam



White/White

*Note: Color accuracy can vary considerably on computer monitors and printers. Please consult your distributor for a product sample before making critical color choices.

King StarBoard® ST is a special, high-density polyethylene sheet that provides a super tough surface for many applications. This unique and advanced polymer makes the material 25% stronger than the original King StarBoard. King StarBoard ST is scratch-resistant making it an excellent construction material for cabinetry, case goods and architectural partitions.

King StarBoard® ST is upgradable to King MicroShield®, an advanced antimicrobial technology for protecting the product surface against stain and odor causing bacteria, algae and fungi.

King StarBoard® ST upgraded to King MicroShield® has been successfully utilized in healthcare applications such as nurses stations, mobile computer carts, and patient beds. Fabrication is easy using common woodworking tools and requires little or no finishing.

King StarBoard® ST is upgradable with King FlameShield, for ASTM E-84 Class A or B Flame/Smoke Compliance and CAN/ULC-S102 for Canadian Compliance.

For more information, please visit www.kingplastic.com

Properties	Units	ASTM	Nominal Values
Density	g/cc	D1505	0.96
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	°C (°F)	D1525	172°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. | Nominal values should not be interpreted as specifications.

King StarBoard® ST is made entirely from FDA and made with USDA approved materials. King StarBoard® ST meets ASTM D4976. | King StarBoard® ST contains no VOC's.



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