



King Plastic Corporation

King StarBoard® ST FAQ

What is King StarBoard® ST?

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.

What type of finish?

Matte gloss finish on both sides of the sheet.

What colors are available?

King StarBoard® ST is available in 10 standard colors: Black, Mocha Brown, Nutmeg, Indigo, Charcoal Gray, Slate Gray, Dolphin Gray, Sansshade, Seafoam, and White/White.

Can you custom color match?

Yes. Please call Customer Service at 941.493.5502.

What is required for custom orders?

Please call Customer Service at 941.493.5502.

What sizes are available?

King StarBoard® ST standard sheet size is 48" x 96". Standard gauges are 1/4", 3/8", 1/2", 3/4", 1" and 1-1/2". Custom sheet sizes and gauges available upon request. Please call Customer Service at 941.493.5502.



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Is King StarBoard® ST available with an antimicrobial?

Yes. For advanced antimicrobial technology, see King MediGrade®, the antimicrobial polymer building sheet for healthcare applications.

Is King StarBoard® ST available with a flame retardant?

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

Disclaimer: King FlameShield may affect finish and color.

What are the features and benefits of King StarBoard® ST?

- Environmentally stabilized – UV stabilized and waterproof
- No volatile organic compounds (VOCs)
- Chemical-resistant and easy to clean
- Will not rust, delaminate or rot
- One of our most scratch-resistant polymer sheets
- 25% stiffer than the original King StarBoard®
- No finishing or painting required
- Works like wood
- Easy to fabricate
- High-impact strength
- Little to no maintenance
- Qualifies for LEED points
- Made to last a lifetime

How can the material be fabricated and finished?

Use standard woodworking tools: table saws, table routers, drills, blades and bits. Carbide router bits with two to four flutes are recommended. For more information, please refer to the fabrication brochures.

How to clean and maintain?

- To clean everyday dirt and stains, use either Mr. Clean Magic Eraser, Soft Scrub® or Simple Green Concentrate at full strength with a nylon scrubby or stiff nylon brush. Scrub lightly; excess force can mar the finish.
- Persistent stains will usually go away if you soak the area with bleach.



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- Do not use 100% chlorine used to treat swimming pools.
- To clean a petroleum stain such as grease or oil; use a citrus cleaner, alcohol or mineral spirits.
- For severe petroleum-based stains, spray with WD40®. Then use toluene or acetone and a white nylon scrub pad (colored pads release staining dyes when combined with acetone).
- Do not use MEK, turpentine or naphtha solvent.
- Furniture polish or products such as Armor-All® can add an attractive luster to the finish and hide small surface blemishes. To prevent slipping, do not use these products on walking surfaces.
- If a mark or stain won't come out, you may lightly sand the area. Be careful to only work on the stained area because sanding will remove the finish.

How to care and store?

- Store the sheets flat on a level surface
- Keep away from teak oil and other products that can stain the finish
- Use china markers or water-based markers to draw patterns
- Pen marks can usually be removed with household cleaners
- Keep away from heat sources that exceed 180°F
- Because there is no grain, parts can be cut from any area of the sheet
- Save the scraps for small parts, shims, spacers and plugs
- Remnants may be eligible for recycling; contact your distributor or King Plastic Corporation for details

What are common applications?

- Architectural Case Goods and Custom Cabinets
- Concession Stands
- Kick Plates
- Lockers
- Outdoor kitchens
- Outdoor furniture
- Pool Areas

Does King StarBoard® ST expand and contract?

Yes, at a rate of 6×10^{-5} in./in./°F degrees, changing approximately 1/32 inch



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for every foot of length or width over a 40°F temperature change. Please refer to thermal expansion/contraction worksheet.

Is King StarBoard® ST FDA approved?

Yes.

Can I use a CNC machine?

Yes.

Will the material produce dust when fabricating?

No, only small shavings that can be recycled.

Can I use King StarBoard® ST for a countertop?

It has been used as a countertop in some applications such as labs, but it is not recommended for a countertop.

Can I use glue or paint?

Gluing is not recommended. Because King StarBoard® ST sheet products are designed to resist water and grime, they cannot be painted and the use of adhesives is not recommended. It is preferable to mechanically fasten or weld. Specialized welding equipment and rods, designed for use with polymer sheets, are available.