The Polymer Building Sheet That Lasts a Lifetime

This unique and advanced polymer makes the material 25% stiffer than the original King StarBoard®. King StarBoard® ST is our most scratch-resistant polymer making it an excellent construction material for cabinetry, case goods and architectural partitions. King StarBoard® ST is environmentally stabilized and has been developed to withstand the harshest outdoor conditions. It will not warp, rot, or delaminate when exposed to humidity or water. It can be fabricated using common woodworking tools and techniques.

King StarBoard® ST XL is available in a lighter version as a custom product. King StarBoard® ST XL sheets are up to 30% lighter in weight than King StarBoard® ST and are made with the same textured surface and colors for a perfect match.

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

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 about King MicroShield® and King FlameShield, please visit www.kingplastic.com

Applications

- Concession Stands
- Dugout Areas in Sports Arenas
- Furniture
- Healthcare Case Goods and Equipment
- Indoor and Outdoor Cabinets
- Kick Plates
- Lockers
- Outdoor Kitchens
- Playgrounds
- Pool Areas
- Tabletops and Counter
Standard Colors

- Black
- Mocha Brown
- Evergreen
- Everglade
- Charcoal Gray
- Dolphin Gray
- Sansshade
- Seafoam
- White/White

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 | 72.5kg | 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

**Properties**

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

Note: Color accuracy can vary considerably on computer monitors and printers. Please consult your distributor for a product sample before making critical color choices.
Disclaimer: King MicroShield® may affect color. King FlameShield may affect finish and color.

*For bacteriostatic, fungistatic, & algistatic properties. This product is exempt from registration under 40 CFR 152.25(a). King MicroShield® effectiveness verified by ISO and ASTM standards. This product does not protect users or others from disease-causing bacteria. Always clean this product thoroughly after use.