The Multi-Color Engravable Polymer Sheet

King ColorCore® is a versatile, environmentally stabilized sheet with multiple layers of contrasting colors. Its thin cap layers and bright primary colors make it ideal for signage, marine, playground and recreational applications. For maximum versatility, standard colors are made to coordinate with King ColorBoard®. King ColorCore® is easy to engrave and machine, as the cap is approximately .050” thick. King ColorCore® is made with high-impact-resistant polymer to handle more abuse than conventional sign materials. It will not warp, rot or delaminate. King ColorCore® is a superior homogeneous sheet, made with a unique state-of-the-art continuous process called Polyfusion, manufactured to the highest standards in the industry. Base materials are FDA approved.

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

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

Applications

- Architectural Applications
- Carnival Games
- Children's Furniture
- Furniture
- Marine Applications
- Museums
- Picnic Tables
- Point-of-Purchase Displays
- Signage and Wayfinding
Specifications

**Standard Sheet Size**
in: 48” x 96”
mm: 1219mm x 2438mm

**Standard Gauges**
in: 1/4” | 1/2” | 3/4”
mm: 6.4mm | 12.7mm | 19mm

**Approximate Weight**
lbs: 40 lbs | 80 lbs | 120 lbs
kg: 18kg | 36kg | 54kg

Cap thickness is .050" for both sides of the material

**Tolerance information:** Gauges 1/4” up to 3/4” ± 5%
Length and width plus only at room temperature

Custom sheet sizes, gauges, and colors available

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**Standard Colors**

Blue/White/Blue
White/Blue/White
Red/White/Red
White/Red/White

Red/Black/Red
Black/Red/Black
Green/White/Green
White/Green/White

Green/Tan/Green
Tan/Green/Tan
Yellow/Black/Yellow
Black/Yellow/Black

Brown/Tan/Brown
Tan/Brown/Tan
Brown/White/Brown
White/White/Brown

Black/White/Black
White/White/Black

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King ColorCore® is made entirely from FDA and made with USDA approved materials. King ColorCore® meets ASTM D4976. The raw material used to make King ColorCore® does not contain BPA's or Phthalates.

*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.

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**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>0.955</td>
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<tr>
<td>Tensile Strength @ Yield</td>
<td>psi</td>
<td>D638</td>
<td>&gt;4,100</td>
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<tr>
<td>Tensile Modulus</td>
<td>psi</td>
<td>D638</td>
<td>255,000</td>
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<tr>
<td>Elongation @ Yield</td>
<td>%</td>
<td>D638</td>
<td>9.8</td>
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<tr>
<td>Elongation @ Break</td>
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<td>D638</td>
<td>&gt;600</td>
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<tr>
<td>Flexural Modulus</td>
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<td>D790</td>
<td>185,000</td>
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<tr>
<td>Flexural Stress @ 5% Strain</td>
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<td>D790</td>
<td>3,810</td>
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<tr>
<td>Compressive Properties 10% Strain</td>
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<td>D695</td>
<td>4,950</td>
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<td>Durometer</td>
<td>Shore D</td>
<td>D2240</td>
<td>68</td>
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<tr>
<td>Tensile Impact</td>
<td>ft.lbs./in.²</td>
<td>D1822</td>
<td>115</td>
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<tr>
<td>Izod Impact Resistance</td>
<td>ft.lbs./in.²</td>
<td>D256</td>
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<td>Brittleness Temp.</td>
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<td>D746</td>
<td>&lt;-76°C (&lt;-105°F)</td>
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<td>Vicat Softening Temp.</td>
<td>°C (°F)</td>
<td>D1525</td>
<td>123°C (253°F)</td>
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<tr>
<td>Heat Deflection Temp. 66 psi</td>
<td>°C (°F)</td>
<td>D648</td>
<td>75°C (167°F)</td>
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<td>Screw and Nail Withdrawal</td>
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<td>D1761</td>
<td>657 &amp; 63</td>
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<td>Flammability Rating</td>
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<td>UL94</td>
<td>HB</td>
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</tbody>
</table>

All values are determined on specimens prepared according to ASTM Standards. Nominal values should not be interpreted as specifications.

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