Engraving Products

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.*

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

KING COLORCORE®

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

Standard Colors

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.

*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.

Properties	Units	ASTM	Nominal Values
Density	g/cc	D1505	0.955
Tensile Strength @ Yield	psi	D638	>4,100
Tensile Modulus	psi	D638	255,000
Elongation @ Yield	%	D638	9.8
Elongation @ Break	%	D638	>600
Flexural Modulus	psi	D790	185,000
Flexural Stress @ 5% Strain	psi	D790	3,810
Compressive Properties 10% Strain	psi	D695	4,950
Durometer	Shore D	D2240	68
Tensile Impact	ft.lbs./in.^{2}	D1822	115
Izod Impact Resistance	ft.lbs./in.^{2}	D256	1.1
Brittleness Temp.	°C (°F)	D746	<-76°C (<-105°F)
Vicat Softening Temp.	°C (°F)	D1525	123°C (253°F)
Heat Deflection Temp. 66 psi	°C (°F)	D648	75°C (167°F)
Screw and Nail Withdrawal	lbs	D1761	657 & 63
Flammability	Rating	UL94	HB

All values are determined on specimens prepared according to ASTM Standards. Nominal values should not be interpreted as specifications.
King ColorCore® is made entirely from FDA and USDA approved material.
King ColorCore® meets ASTM D4976. The raw material used to make King ColorCore® does not contain BPA's or Phthalates.

King Plastic Corporation
Our Innovation. Your Imagination.®

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