DAKOTA

Engraving Products

The Multi-Color Engravable Polymer Sheet

King ColorCore® is a versatile multi-color engravable high-density polyethylene sheet with multiple layers of contrasting colors. It is a superior homogeneous sheet, a product of a unique state-of-the-art continuous process called Polyfusion, and manufactured to the highest standards in the industry. King ColorCore® has a matte finish on both sides of the sheet. It is environmentally stabilized to withstand the harshest outdoor conditions. King ColorCore® will not rust, delaminate or rot when exposed to UV, humidity or water. King ColorCore® is made with high-impact-resistant polymer to handle more abuse than conventional sign materials. 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®. The polymer sheet never needs painting or refinishing, works like wood and it is easy to fabricate using common woodworking tools and techniques. The material is easy to engrave and machine, as the cap is approximately .050" thick.

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: 1219 mm x 2438 mm

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

Approximate Weight
lbs: 40 lbs | 80 lbs | 120 lbs
kg: 18.14 kg | 36.3 kg | 54.4 kg

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

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/Brown/White

Black/White/Black

White/Black/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. 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 @ Break	%	D638	>600
Elongation @ Yield	%	D638	9.8
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.

DAKOTA
PREMIUM HARDWOODS & SO MUCH MORE!

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