Healthcare Products

The Antimicrobial Polymer Building Sheet for Healthcare Applications

King MediGrade® is a super tough, high-density polyethylene building sheet with an advanced antimicrobial technology for protecting the product surface against stain and odor causing bacteria, algae and fungi. Unlike surface antimicrobials, King Plastic's advanced antimicrobial technology protects against bacterial degradation for the lifetime of the product. It is the product of a proprietary process called K-Stran™, the most advanced manufacturing process for superior flatness and consistency. King MediGrade® has a matte gloss finish on both sides of the sheet. It is environmentally stabilized to withstand the harshest outdoor conditions. King MediGrade® will not rust, delaminate or rot when exposed to UV, humidity or water. Healthcare facilities, medical equipment and case goods made with King MediGrade® will stay cleaner and fresher between cleanings. Studies have shown that surfaces with the antimicrobial technology can inhibit the amount of certain product-damaging bacteria by 99.99%* compared to an untreated surface. The polymer sheet never needs painting or refinishing, works like wood and is easy to fabricate using common woodworking tools and techniques.

KING MEDIGRADE®

Applications*

- Cabinetry and Storage Carts
- Clean Rooms
- Dental Facilities
- Hospitals
- Locker Rooms
- Medical Facilities
- Medical Laboratories
- Mobile Computer Carts
- Nursing Homes
- Nurses Stations
- Rest Rooms
- Veterinary Facilities

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 kg | 36 kg | 54.4 kg

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 upon request

Standard Colors

Dolphin Gray | Sanshade | Seafoam | White/White

Additional Colors

Black | Mocha Brown | Nutmeg | Tuscan | Basil

Indigo | Charcoal Gray | Slate Gray

Contact customer service for availability and minimums.

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: The antimicrobial additive may affect color.

Properties	Units	ASTM	Nominal Values
Density	g/cc	D1505	0.963
Tensile Strength @ Yield	psi	D638	>4,500
Tensile Modulus	psi	D638	318,000
Elongation @ Break	%	D638	>600
Elongation @ Yield	%	D638	8.8
Flexural Modulus	psi	D790	225,000
Flexural Stress @ 5% Strain	psi	D790	4,480
Compressive Properties 10% Strain	psi	D695	4,790
Durometer	Shore D	D2240	69
Tensile Impact	ft.lbs./in.^{2}	D1822	99
Izod Impact Resistance	ft.lbs./in.^{2}	D256	1.4
Brittleness Temp.	°C (°F)	D746	<-75°C (<-103°F)
Vicat Softening Temp.	°C (°F)	D1525	172°C (270°F)
Heat Deflection Temp. 66 psi	°C (°F)	D648	84°C (183°F)
Screw and Nail Withdrawal	lbs	D1761	755 & 55
Flammability	Rating	UL94	HB

All values are determined on specimens prepared according to ASTM.
Nominal values should not be interpreted as specifications.
King MediGrade® is made entirely from FDA and USDA approved material.
King MediGrade® meets ASTM D4976.
King MediGrade® contains no VOC's.

*For bacteriostatic, fungistatic, & algistatic properties. King MediGrade® is exempt from EPA registration under 40 CFR 152.25(a) (commonly known as the "treated article exemption"). The active ingredient in King MediGrade® is EPA registered and accepted for use in polymers and plastics. King MediGrade® 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.

King Plastic Corporation
Our Innovation. Your Imagination.®

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