



King Plastic Corporation

King KPC HDPE FAQ

What is King KPC HDPE?

King KPC HDPE is a high-density polyethylene material. It is the product of a proprietary process called K-Stran™, the most advanced manufacturing process for superior flatness and consistency for gauges up to 1 -1/2" thick. Larger gauges are manufactured in our state-of-the-art compression mold or extrusion mold. King KPC HDPE has a natural, smooth gloss finish on both sides of the sheet. It is extremely versatile with outstanding properties and good chemical resistance for a wide variety of applications at a very competitive cost. King KPC HDPE natural is FDA and USDA approved material that can be used for food containers and food equipment.* The material is easy to machine and fabricate.

King KPC HDPE 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 KPC HDPE is upgradable with King FlameShield, for ASTM E-84 Class A Flame Compliance and CAN/ULC-S102 for Canadian Compliance.

For more information about King MicroShield® and King FlameShield, please visit those product pages.

Disclaimer: King MicroShield® may affect color. King FlameShield may affect finish and color.

*This product does not protect users or others against foodborne bacteria. Always clean this product thoroughly after each use.

**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.

What type of finish?

Smooth gloss finish on both sides of the sheet.



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What colors are available?

King KPC HDPE is available in Natural.

Can you custom color match?

Yes. Please call Customer Service at 941.493.5502.

What is required for custom orders?

Please call Customer Service at 941.493.5502.

What sizes are available?

King KPC HDPE standard sheet size is 48" x 96". Standard gauges are 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3", 4". Custom sheet sizes and gauges available upon request. Please call Customer Service at 941.493.5502.

Is King KPC HDPE available with an antimicrobial?

Yes. King KPC HDPE 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 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. 99.99% effective inhibition rate has been achieved using standardized test methods of microorganism growth versus untreated controls in lab testing.

Disclaimer: King MicroShield® may affect color.

Is King KPC HDPE available with a flame retardant?

Yes. King KPC HDPE is upgradable with King FlameShield, for ASTM E-84 Class A Flame Compliance and CAN/ULC-S102 for Canadian Compliance.

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What are the features and benefits of King KPC HDPE?

- Waterproof
- No Volatile Organic Compounds (VOCs)
- Chemical and Corrosion Resistant
- Easy to Clean



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- Will Not Rust, Delaminate or Rot
- No Finishing or Painting Required
- Easy to Fabricate and Machine
- High-Impact Strength
- Maintenance Free
- FDA Approved
- Advanced Antimicrobial Technology Available

How can the material be fabricated and finished?

Use standard woodworking tools: table saws, table routers, drills, blades and bits. Carbide router bits with two to four flutes are recommended. For more information, please refer to the fabrication brochures.

How to clean and maintain?

- To clean everyday dirt and stains, use either Mr. Clean Magic Eraser, Soft Scrub® or Simple Green Concentrate at full strength with a nylon scrubby or stiff nylon brush. Scrub lightly; excess force can mar the finish.
- Persistent stains will usually go away if you soak the area with bleach. Do not use 100% chlorine used to treat swimming pools.
- To clean a petroleum stain such as grease or oil; use a citrus cleaner, alcohol or mineral spirits.
- For severe petroleum-based stains, spray with WD40®. Then use toluene or acetone and a white nylon scrub pad (colored pads release staining dyes when combined with acetone).
- Do not use MEK, turpentine or naphtha solvent.
- Furniture polish or products such as Armor-All® can add an attractive luster to the finish and hide small surface blemishes. To prevent slipping, do not use these products on walking surfaces.
- If a mark or stain won't come out, you may lightly sand the area. Be careful to only work on the stained area because sanding will remove the matte finish.



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How to care and store?

- Store the sheets flat on a level surface
- Keep away from teak oil and other products that can stain the finish
- Use china markers or water-based markers to draw patterns
- Pen marks can usually be removed with household cleaners
- Keep away from heat sources that exceed 180°F
- Because there is no grain, parts can be cut from any area of the sheet
- Save the scraps for small parts, shims, spacers and plugs
- Remnants may be eligible for recycling; contact your distributor or King Plastic Corporation for details

What are common applications?

- Brush Blocks
- Containment Tanks
- Livestock Containment
- Material Handling Systems
- Machined Parts
- Skating Rinks
- Wear Strips

Is King KPC HDPE FDA approved?

Yes.

Can I use a CNC machine?

Yes.

Will the material produce dust when fabricating?

No, only small shavings that can be recycled.

Can I use King KPC HDPE for a countertop?

It is not recommended for a countertop.



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Can I use glue or paint?

Gluing is not recommended. Because King KPC HDPE sheet products are designed to resist water and grime, they cannot be painted and the use of adhesives is not recommended. It is preferable to mechanically fasten or weld. Specialized welding equipment and rods, designed for use with polymer sheets, are available.