



King Plastic Corporation

King KPC LDPE

FAQ

What is King KPC LDPE?

King KPC LDPE is a low-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 up to 4" thick are manufactured in our state-of-the-art compression mold or extrusion mold. King KPC LDPE has a natural, smooth gloss finish on both sides of the sheet. It is extremely versatile with outstanding properties and good chemical resistance making it ideal for a wide variety of applications such as stencils, orthopedics, packaging, sound deadening, and the automotive applications. Other applications may include trays, general-purpose containers, food storage, laboratory containers, and corrosion-resistant work surfaces. King KPC LDPE natural is FDA and USDA approved material that can be used for food containers and food equipment.* It is ideal for applications where corrosion resistance is a factor, but stiffness, high temperatures and structural strength are not. The material is easy to machine and fabricate.

What type of finish?

Smooth gloss finish on both sides of the sheet.

What colors are available?

King KPC LDPE 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.



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What sizes are available?

King KPC LDPE standard sheet size is 48" x 96". Standard gauges are 1/16", 3/32", 1/8", 1/8", 3/16", 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2". Custom sheet sizes and gauges available upon request. Please call Customer Service at 941.493.5502.

Is King KPC LDPE available with an antimicrobial?

No.

Is King KPC LDPE available with a Flame Retardant?

No.

What are the Features and Benefits of King KPC LDPE?

- Extruded sheets are pliable with a low Durometer of 42 and a smooth translucent appearance
- Chemical-resistant and easy to clean
- Corrosion-resistant
- Will not rust, delaminate or rot
- No finishing or painting required
- Easy to fabricate
- Made with FDA and USDA approved materials

How Can I Fabricate and Finish it?

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?

- Only routine cleaning with common detergents is required
- Nylon scrub pads and brushes should be used with care because excessive 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,



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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.
- Automotive silicone spray products or household furniture polish can help hide scratches on the surface. To prevent slipping, do not use these products on walking surfaces.

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?

- Electrical Insulators
- Die Cut Parts
- Food Storage
- Neutron Shielding
- Root Barriers
- Orthopedic and Prosthetic Appliances
- Stencils
- Vacuum-Formed Parts

Is King KPC LDPE FDA approved?

Yes.



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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 glue or paint?

Gluing is not recommended. Because King KPC LDPE 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.