



King Plastic Corporation

## **King Plasti-Shield® FAQ**

### **What is King Plasti-Shield®?**

King Plasti-Shield® is an effective shielding material with 5% boron by weight and our trademark purple color to meet all applicable applications for healthcare cancer treatment centers, diagnostic and hospital facilities. Applications include linear accelerators, nuclear or radiation shielding, industrial use, security such as seaports and airport security, nuclear submarines, nuclear power plants, border protection and other applications requiring attenuation of thermal neutrons.

Our process, materials, quality programs, sampling, testing, tracing and packaging all meet or exceed military specifications such as MIL-P23536A and EB2562E. We use MIL-STD-45662 for internal calibration system traceable back to NIST.

### **What type of finish?**

Dull finish on both sides.

### **What colors are available?**

King Plasti-Shield® is available in 5% Purple and 2% Red is also available. Custom colors are available. Please call Customer Service at 941.493.5502.

### **Can you custom color match?**

Yes. Please call Customer Service at 941.493.5502.

### **What sizes are available?**

King Plasti-Shield® standard sheet size is 48" x 96". Standard gauge is 1". Custom sheet sizes and gauges available upon request. Please call Customer Service at 941.493.5502.

### **What are the Features and Benefits of King Plasti-Shield®?**

- Neutron Shielding



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- Our process, materials, quality programs, sampling, testing, tracing and packaging all meet or exceed military specifications such as MIL-P23536A and EB2562E with 2% boron only

## **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.

## **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

## **What are common applications?**

- Airport Security and Sea Port Security
- International Border Security
- Doors for Linear Accelerators
- Medical Vaults
- Nuclear Reactors
- Nuclear-Powered Vessels
- Research Applications

## **Can I use a CNC machine?**

Yes.

## **Will the material produce dust when fabricating?**

No, only small shavings.