



King PipeGrade® FAQ

What is King PipeGrade®?

King PipeGrade® is PE 100 material, which is compliant to ASTM 3350 as a standard material. ASTM 3350/4710 PE100 is completely compatible and 100% interchangeable for use in applications that presently use ASTM 3608 – PE 80 material. King PipeGrade® is FDA and NSF Standard 14 certified and complies with ANSI/NSF Standard 61 to be used in potable water piping systems.

What type of finish?

Smooth finish on both sides.

What colors are available?

King PipeGrade® is available in Black.

What sizes are available?

King PipeGrade® standard sheets sizes are 48" x 96" and 60" x 120". Standard gauges for 48" x 96" 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", 2-1/2", 3", 3-1/2", and 4". Standard Gauges for 60" x 120" are 1/4", 1/2", 3/4", 1", and 1-1/2". Custom sheet sizes and gauges available upon request. Please call Customer Service at 941.493.5502.

What are the Features and Benefits of King PipeGrade®?

- Compliant to ASTM 3350 as a standard material
- ASTM 3350/4710 PE 100 is completely compatible and 100% interchangeable for use in applications that presently use ASTM 3608 – PE 80 material.
- FDA and NSF Standard 14 certified
- Complies with ANSI/NSF Standard 61 to be used in potable water piping systems
- 50-100 years service life per ISO CRS 10 MPa @ 20°C.
- PE 4710- PE 100 tends to have a higher hydrostatic design basis (HDB) than other resins but most significantly is the notched tensile/slow crack PENT test which is > 10,000 hours vs. 100-200 hours for others.



King Plastic Corporation

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 degrees 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?

- Aquaculture
- Chain Guides
- Gas Lines
- Gravity and Force Mains
- Industrial Pipe Processing
- Irrigation
- Municipal Sewer Systems
- Paddles, Weirs and Wear Shoes
- Plumbing Pipes and Fittings
- Water and Sewage Treatment

Is King PipeGrade® 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.