



PP-RCT POLYPROPYLENE PIPE

What is PP-RCT Pipe?

Polypropylene Random Crystalline Temperature
 It is the newest, highest performing generation of PP-R
 (Polypropylene Random Pipe)

PESTAN PP-RCT Pipe is a plastic pipe that successfully replaces traditional metal piping systems like copper, iron and stainless. It can be used inside and outside the building and can be direct buried. It is ideal for a wide range of applications including but not limited to:

Hot & Cold Potable Water
Hydronic Systems
Chiller Systems

Chemical Feed Lines
Process Water
Geothermal Systems

Industrial Applications
Compressed Air & Vacuum
Reclaimed Water



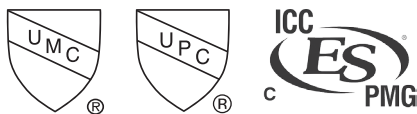
www.pestanpipes.com

PESTAN PP-RCT PIPE PRESSURE CHART

DESIGN COEFFICIENT 1.5 per ASTM F - 2389	PESTAN PP-RCT PIPE Liquids			PESTAN PP-RCT PIPE Compressed Air		
	SDR 7.4	SDR 9	SDR 11	SDR 7.4	SDR 9	SDR 11
50° F	406 psi	322 psi	257 psi	304 psi	241 psi	193 psi
73° F	335 psi	270 psi	210 psi	251 psi	202 psi	158 psi
104° F	260 psi	206 psi	164 psi	130 psi	103 psi	82 psi
140° F	186 psi	148 psi	118 psi	93 psi	74 psi	59 psi
180° F	100 psi*	100 psi	85 psi	n/a*	n/a*	n/a*

**ASTM limits use at 180° F to 100 psi but actual rating is 120 psi*

**The operating temperature for compressed air systems should be below 140° F.*



PESTAN Pipe complies with:

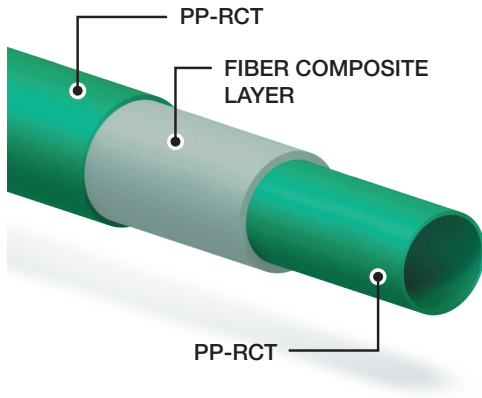
ASTM F 2389

NSF/ANSI 14, NSF/ANSI 61

ISO 14001:2004, ISO 9001:2008, ISO 18001:2007

Advantages of PESTAN PP-RCT

- ▶ Does not scale or support biological growth – No upsizing of pipe inside diameter is required
- ▶ Resistant to hydrolysis – does not react with water
- ▶ Superior chlorine resistance- CLR 5 – Best in the Industry!
- ▶ Reduced heat transfer values – less insulation is required than with metal piping and minimized loss or gain of heat means energy savings
- ▶ Lightweight as compared to metals
- ▶ Exceptionally smooth inside diameter has a low coefficient of friction, meaning lower pumping costs
- ▶ Good sound insulator – ideal for commercial, institutional and multi-family facilities
- ▶ Trained Installers
- ▶ Can be pre-fabricated so much of the installation can be done on the ground instead of in the air
- ▶ Extended (50+ Year) Service Life



PESTAN Fiber Composite Layer Controls Thermal Linear Expansion and Contraction

Special Fiber Composite layer controls the thermal linear expansion and contraction that is common in plastic piping.

The special co-extrusion process also increases pipe rigidity and enhances hanger spacing.

Joining PESTAN PP-RCT Pipe

PESTAN PP-RCT is joined with a process called heat fusion. This process has no open flames, no glues, solvents or solders. It utilizes an iron, heated to 480° - 500° F to melt the pipe and fitting. The pipe and fitting are then joined together and held in place till cool, forming a permanent, leak free connection.

Equipment made by the following fusion equipment manufacturers may be used when joining PESTAN pipe.



Benefits of fusion connections over “press” or “mechanical” joints:

- ▶ No size limitations
- ▶ No O-rings to fail
- ▶ No pressure or temperature limitations
- ▶ Pre-fab can be done on the ground - Less over-head work
- ▶ No leak path
- ▶ No glues, solvents or solders



PESTAN Products available through:
CT PIPING SOLUTIONS, INC.
814-827-8034