



Phone: 877-746-3826 ~ Fax: 641-324-1092 ~ Web: [www.premierpolysteel.com](http://www.premierpolysteel.com) ~ Email: [sales@premierpolysteel.com](mailto:sales@premierpolysteel.com)

## **Premier Polysteel Specifications for all styles bike racks. Plastisol specifications included.** Last updated February, 2015

### **Specifications for Bike Rack**

**Gate Style:** Ends and bottom rail are made out of plastic coated pipe that measures 2-3/8" OD. Bike fence is made of plastic coated pipe that measures 1-5/16 and 2-3/8" OD. All above are plastisol coated with UV and fungus resistant plastisol to a thickness of 1/8".

**Loop Style:** Made of 2" (ID) schedule 40 pipe that has the following measurements prior to coating: 2.375 OD. Base plates are made of 8" diameter .1875" HR steel plate which is solidly welded to loop. For direct bury model 1/4" HR steel cross rods are welded on pipe below grade to impede movement in a poured concrete foundation. All above are plastisol coated with UV and fungus resistant plastisol to a thickness of 1/8".

**T-Post Style:** Made of 2" pipe tube and 1/2" schedule 40. Base is made of 3/16" HR steel plate. All above are plastisol coated with UV and fungus resistant plastisol to a thickness of 1/8".

***Pipe has no holes to allow access by bees or other insects.***

### **Specifications for Plastisol (PVC) Poly-Vinyl Chloride Coating**

Material: Plastisol (PVC) shall have:

**Antimicrobial** (non-leaching) to help prevent microbiological attack on the plastisol (PVC) surface that can cause the loss of aesthetic appearance, mildew odors, embrittlement and premature product failure. Testing Data available Per ASTM G21-90.

Tensile strength of no less than 1800 psi per ASTM D412.

Elongation of no less than 200% per ASTM D412

Tear strength of no less than 300lb/in per ASTM D624.

Hardness of 90 ± 5 (Durometer, Shore A (Instant)) per ASTM D2240.

**Flammability** – Pass per FMVSS 302

**UV stabilized** – guaranteed to not show significant fading for 5 years per written warranty

Process: Prior to plastisol coating, each part shall be chemically washed, dried, heated and coated in a heat activated primer and dried. After drying, each part shall be pre-heated in a convection oven to a temperature of no less than 400° F, dipped into liquid Plastisol (PVC) and cured in a convection oven at a temperature no less than 350° F. **All parts shall have a coating thickness of .125"-.25".**

Premier Polysteel products are completely plastisol coated (frames and legs included) with a thick, UV stabilized, mold and mildew resistant plastisol coating which is compliant with worldwide standards. Premier Polysteel is committed to being an environmentally conscious company and recognizes the importance of being committed to continually finding ways to support our environment.

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