



## **UPlay Today™ Product Specifications**

### ***General System Specifications:***

UPlay Today™ features 3<sup>1/2</sup>" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed deck clamps located at the appropriate deck heights.

All decks and components shall connect using the aluminum clamping system. All climbing attachments shall include either upright-mounted grab bars or a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

UltraPlay shall offer the following warranties on the materials and components of the UPlay Today™ playsystems:

- 10-Year limited warranty on support posts (uprights)
- 5-Year limited warranty on metal parts including decks, pipes, rails, loops and rungs
- 3-Year limited warranty on rotationally molded polyethylene components
- 1-Year limited warranty on all hardware and all UltraPlay products in general

### ***Clamps***

All clamps are die cast, high-strength 102 aluminum and are powder-coated to match the post color. Fasteners for clamps are stainless steel special tamper-resistant pinned bolt with locking patch, and a heavy hex locknut, which fits into either a hex or round shaped recess, cast into the clamp. The pinned bolt head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

### ***Plastisol Coating***

All metal deck platforms, steps and stairs are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid polyvinyl-chloride (plastisol). The PVC coating shall have a nominal thickness of .080" and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown. The following characteristics apply:

Tensile Strength - 2,800 psi  
Elongation - 290 %  
Tear Strength - 420 lbs/in

This product meets or exceeds the heavy metal requirements of the CPSIA Act of 2008.

### ***Powder-Coating Process***

Powder-coat shall be an electrostatically applied formula of polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics.

### ***Rotationally Molded Plastics***

All Rotationally Molded Products are manufactured from medium density polyethylene (UV-stabilized color). The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The nominal wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications:

Melt Index (ASTM D-1238); Density (ASTM D- 1505); Tensile Values (ASTM D-638); Flexural Stiffness (ASTM D-747); IZOD Impact Strength (ASTM D256); Vicat Softening Point (ASTM D-1525); Brittleness Temperature (ASTM D746); Shore Hardness (ASTM D2240).

### ***Blow Molded Plastics***

All Blow Molded Products are manufactured from high-density polyethylene. The nominal wall thickness will be .200". All blow molded products shall meet or exceed the following specifications:

ASTM-D 1248 Type III, Class A, Category 5; Melt Index (ASTM D-1238); Density (ASTM D- 1505); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); IZOD Impact Strength (ASTM D256); Brittleness Temperature (ASTM D746).

### ***HDPE Components***

Climbers shall be precision cut from a single solid sheet of .59" thick UV-stabilized extruded high-density polyethylene. All edges shall have radiuses and all corners rounded for safe play.

### ***Hardware***

All nuts, bolts, and washers, with exceptions noted, shall be stainless steel Grade 304 in varying lengths, with a vandal-resistant button-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. UltraPlay will supply the special tool required to turn vandal-resistant hardware with each shipment.

### ***Uprights – Steel***

The posts shall be 3 1/2" O.D. 13-gauge galvanized steel tubing. Entire post is powder coated after fabrication.