

# PLANTRA® TREESHELTER SPECIFICATIONS

## Technical Specifications For Plantra O-Style Treeshelters

| <i>Attribute</i>         | <i>Plantra Specification</i>   | <i>Rationale</i>  |
|--------------------------|--|---|
| Material                 | Polyethyelene blend  | Provides correct combination of rigidity for plant protection with suppleness to prevent rim abrasion to emerging stems.  |
| Basic construction       | Twin-walled extrusion  | <ul style="list-style-type: none"> <li>• Very high strength to weight ratio – allows for excellent strength with a minimum of plastic</li> <li>• Diffusion of light to strike maximum photoreceptors for optimal photosynthesis</li> </ul>                                      |
| UV protection & lifespan | UV inhibitors protect resin from sunlight and heat.<br>Will last 5 to 10 years depending on UV exposure and heat (climate, altitude and shade level) | UV inhibitors protect the plastic from photodegradation long enough to protect the tree both from deer browse and buck rub, and support the tree until it become completely self-supporting.  |
| Color                    | Proprietary “peach” color  | Optimizes ratio of red light relative to other portions of the visible and non-visible spectrum to optimize photosynthesis and stimulate secondary (stem caliper and roots) growth development.   |
| Diameter                 | 3.9 inches   | Large diameter allows leaves to deploy at proper angle for photosynthesis and minimizes self-shading of leaves in the tube, resulting in more biomass growth and preventing spindly “shade response” growth   |
| Flared rim               | No   | Flared rim in not necessary due to: <ul style="list-style-type: none"> <li>• Supple/pliable resin does not abrade emerging stems</li> <li>• Large diameter and peach color produce thicker stems that are not as vulnerable to abrasion upon emergence from the tube</li> </ul> |

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|-------------------|--|--|
| Ties              | 2 or 3 releasable nylon cable ties are provided, depending on tube height. Nylon ties are treated for extended outdoor exposure and humidity variation |  |
| Harmful additives | Container NO mercury, chlorine, lead or any other harmful heavy metal or chemical  |  |
| Chemical activity | Chemically inert   |  |
| Degradation       | Photodegradable. Becomes brittle in time and photodegrades. End product is not biodegradable but will not chemically react in the environment.         | No plastic treeshelter is biodegradable. All are made from the “polyolefin” family of plastic resins with similar degradation characteristics. |