

**DESCRIPTION** Through testing and the experience of thousands of concealment sites constructed, Raycap | STEALTH® has determined that the type and placement of materials used for screening antennas play a vital role in their performance. Raycap | STEALTH® radomes are engineered and manufactured to become part of the existing structure and withstand extreme weather conditions while maintaining their original appearance.

**APPLICATIONS** Raycap | STEALTH® radomes can be used to manufacture a variety of rooftop and tower type concealment products including pods, flag poles, monopoles, candelabras and light poles. The radomes can be factory painted to customer specified color requirements.

**RECOMMENDED FREQUENCIES** Raycap | STEALTH® generally recommends concealment radomes for frequencies up to 10GHz. However, they perform well for certain application types. Raycap | STEALTH® has insertion loss lab testing for the radome material up to 100 GHz at multiple incidence angles and textures. Test results for specific applications are available upon request.

**SIZES AND STYLES AVAILABLE** Raycap | STEALTH® radomes are available in round/ smooth one piece, or multi-sided, multi-piece varieties. Standard sizes include up to 60" diameter and 12' high; custom sizes available upon request. Nominal radome thickness is 1/8" to 3/16" depending on diameter. View our [Radome Reference Guide](#) for available sizes and styles.

**PHYSICAL PROPERTIES** Raycap | STEALTH® radomes are manufactured using homogeneous plastic sheets that are formed to the desired final form. Physical properties of the sheets are listed to the right.

**FABRICATION/INSTALLATION** Raycap | STEALTH® radomes can be fabricated into various sizes. Due to the critical design aspects of many of its applications. We recommend that qualified designers or consultants design a total concealment system to support the radomes.

**AVAILABILITY** Raycap | STEALTH® maintains limited inventory of radome materials and has custom manufacturing capability in its facility in South Carolina. Please contact us at 843-207-8000 for sales information.

**TECHNICAL SERVICES** Raycap | STEALTH® can provide technical information and support to address questions when using radomes. Technical personnel are available via telephone at 843-207-8000.

| PHYSICAL PERFORMANCE PROPERTIES OF SHEETS USED TO FORM STEALTHSKIN™ RADOMES |          |             |         |
|---|----------|-------------|---------|
| PROPERTY  | UNITS    | TEST METHOD | RESULTS |
| Specific Gravity  | -        | ASTM D-792  | 1.04    |
| Melt Index Condition I  | g/10min  | ASTM D-1238 | 1.7     |
| Gloss, 60 degree  | %        | ASTM D-523  | 90      |
| Tensile Strength, Yield   | psi      | ASTM D-638  | 5,100   |
| Flexural Modulus (73°F)   | psi      | ASTM D-790  | 270,000 |
| Impact Strength, Notched Izod (73°F)  | Ft-lb/in | ASTM D-256  | 6.3     |
| Impact Strength, Notched Izod (-40°F)                                       | Ft-lb/in | ASTM D-256  | 2.2     |