

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

**APPLICATIONS** STEALTH<sup>®</sup> 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** STEALTH<sup>®</sup> generally recommends concealment radomes for frequencies up to 10GHz. However, they perform well for certain application types. STEALTH<sup>®</sup> 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** STEALTH<sup>®</sup> 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** STEALTH<sup>®</sup> 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** STEALTH<sup>®</sup> radomes can be fabricated into various sizes. Due to the critical design aspects of many of its applications, STEALTH<sup>®</sup> recommends that qualified designers or consultants design a total concealment system to support the radomes.

**AVAILABILITY** STEALTH<sup>®</sup> 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** STEALTH<sup>®</sup> 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 <sup>™</sup> 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