

STEALTH Concealment Solutions

STEALTHSKIN Concealment Radomes

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

APPLICATIONS 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 generally recommends concealment radomes for frequencies up to 10GHz. However, they perform well for certain application types. Raycap 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 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 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's 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 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 can provide technical information and support to address questions when using radomes.

PHYSICAL PERFORMANCE PROPERTIES OF ABS SKINS

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