Corning® Pyroceram®
Code **9606**

Corning® Pyroceram® glass-ceramic material is opaque, light gray in color, and has high strength, high elastic modulus, and uniform dielectric properties. It can be manufactured in ogival* shapes, hemispheres, pressware sheets, and various machined shapes.

* pointed arch

Applications

Tactical Missile Nosecones
Antenna Windows
Radomes
Solid Wave Guides
Hydrospace Systems

Dimensions

Ogival Shapes	Up to 48 inches long x 20 inches diameter
Hemispheres	Up to 16 inches in diameter
Pressware Sheets	Up to 27 inches x 27 inches x 1 .0 inch or 17 inches x 17 inches x 2.0 inches

Physical Properties

Water Absorption	< 0.01%
Softening Point	1350 ˚C; 2462 ˚F
Gas Permeability	Impermeable
Density	2.6 g/cm^3; 160 lb/ft^3
Elastic Modulus	120 x 10^6 kPa; 17.4 x 10^6 psi

Thermal Properties

Coefficient of Linear Expansion	57 x 10^{-7}/˚C — 32 x 10^{-7}/˚F (20 ˚C - 320 ˚C; 68 ˚F - 608 ˚F)
Thermal Conductivity	0.0081 cal/(s·cm·˚C) — 2 BTU·ft/(h·ft^2·˚F) (mean 20 ˚C - 800 ˚C — 68 ˚F - 1472 ˚F)
Thermal Diffusivity	0.0127 cm^2/s — 0.049 ft^2/h (mean 20 ˚C - 800 ˚C — 68 ˚F - 1472 ˚F)
Specific Heat	0.233 cal/(g·K) — 0.233 BTU/(lb·˚F) (mean 20 ˚C - 800 ˚C — 68 ˚F - 1472 ˚F)

For more information about Corning's Pyroceram® materials please contact:

CORNING

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