

Corning® Pyroceraam®
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

Corning Incorporated

Tel: 315-379-3600

Email: specialtymaterials@corning.com

www.corning.com/advanced-optics