

Specialty Glass Products Technical Reference Document

07/12

Soda-Lime

Heat Absorbing Float Glass

Product Description

Heat Absorbing Float Glass (HAFG) provides superior performance in reducing solar heat gain while maintaining desirable high visible light transmission. The light blue/green color subdues brightness while providing the highest visible light transmittance (77% for 6.0 mm thickness) of all tinted glass substrates currently available.

Features

- Absorbs IR

Applications

- Shortpass (SP) filter

Physical Properties

Optical Properties

- Refractive index at sodium D Line (ND) 1.5184
- CIE Illuminate "C" data chromaticity coordinates x=0.301, y=0.323
- Dominant wavelength 501 nm
- Excitation purity 2.9%

Thermal Properties

- Expansion coefficient (25°C to 300°C) $8.6 \times 10^{-6}/^{\circ}\text{C}$ $4.8 \times 10^{-6}/^{\circ}\text{F}$
- Specific Heat at 0° - 100°C (32° - 212°F) 0.205
- Softening point 719°C 1327°F
- Annealing point 540°C 1004°F
- Strain point 503°C 937°F

Dimensions

- Thicknesses: 1/8" & 1/4"
- Sizes: Up to 60" x 84"

