

Dark Gray Glass Data Sheet

Overview:

Dark Gray glass, sometimes called Black glass, is a standard soda lime based product that delivers optimum levels of solar control together with a fashionable, nearly black appearance. Dark Gray glass can be heat strengthened, heat tempered and laminated. The daylight transmittance of Dark Gray glass is 8 percent, making it ideal for glare control and privacy glazing.

Features and Benefits:

- Dark Gray glass helps protect interior fabrics and colors from fading by blocking up to 94% of the sun's ultraviolet energy, more than any architectural glass on the market today.
- Dark Gray glass combines superior heat-load reduction and solar control with a distinctive color contrast. Its shading coefficient is among the lowest of any uncoated glass.

Material Properties:

Modulus of Elasticity (Young's)	10.4 x 10 ⁶ psi	72 GPa
Modulus of Rigidity (Shear)	4.3 x 10 ⁶ psi	30 GPa
Poisson's Ratio	0.23	0.23
Refractive Index	1.52	1.52
Bulk Modulus	6.2 x 10 ⁶ psi	43 GPa
Density	156 lb/ft ³	2500 kg/m ³
Coefficient of Thermal Stress	50 psi/°F	0.62 MPa/°C
Thermal Conductivity at (75°F)	6.5 Btu.in/hr.°F.ft ²	0.937 W.m/m ² .°C
Specific Heat at (75° F)	0.21 Btu/lbm.°F	0.88 kJ/kg.°C
Coefficient of Linear Expansion (75-575°F)	4.6 x 10 ⁻⁶ /°F	8.6 x 10 ⁻⁶ /°C
Hardness (Mohs Scale)	5 - 6	5 - 6
Softening Point (ASTM C 338)	1319°F	715°C
Annealing Point (ASTM C 336)	1018°F	548°C
Strain Point (ASTM C 336)	952°F	511°C
Specific Gravity	2.53	2.53
Emissivity at (75°F)	0.84	0.84

Dimensions of Standard Products

Thickness	0.118" to .236"	3 mm to 6 mm
Stock Sizes	84" x 72"	2134 mm x 1830 mm

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Solar Performance Values

Glass Thickness mm	Transmittance				Reflectance	
	UV%	Visible%	Infrared%	Total Solar%	Visible%	Total Solar%
3.0	8	24	18	22	5	4
5.0	8	26	18	21	4	4
6.0	7	26	18	23	5	4

Performance Data: (data collected on 3mm thickness)

Transmission Curve

