Product Information: WHITE FLASHED OPAL 08/11

Structure

White Flashed Opal Glass consists of a colorless base glass which serves as a carrier material and a thin white flashed layer. White Flashed Opal Glass is manufactured with a constant white flashed layer of about 1mm (04") thick over clear. Can be tempered if needed.

Transmission

The transmission properties of White Flashed Opal Glass are for the most part dependent solely on the white layer, the thickness of which varies over the manufacturing width and is generally in the order of 0.45 ± 0.20 mm. The visual light transmission in the case of standard illuminant A is on average τ_{vA} = 35 % (± 10 %).

Light Diffusion

In the visible range of the spectrum DESAG White Flashed Opal Glass gives almost ideal diffusion. In the near infrared range a directed component is superimposed which appears on the diffusion indicatrix (fig.> 2) as a small "nose". From λ = 800 nm the proportion of the directed transmission increases relatively sharply and where λ = 2000 nm, values of 50 % may be reached.

Chemical Properties

White Flashed Opal glass is largely insensitive to the action of water, acids, alkalis and salt solutions (with the exception of hydroflouric acid).

Electrical Properties

Specific electrical resistivity > $10^{10}\ \Omega$/cm.

Thermal Properties

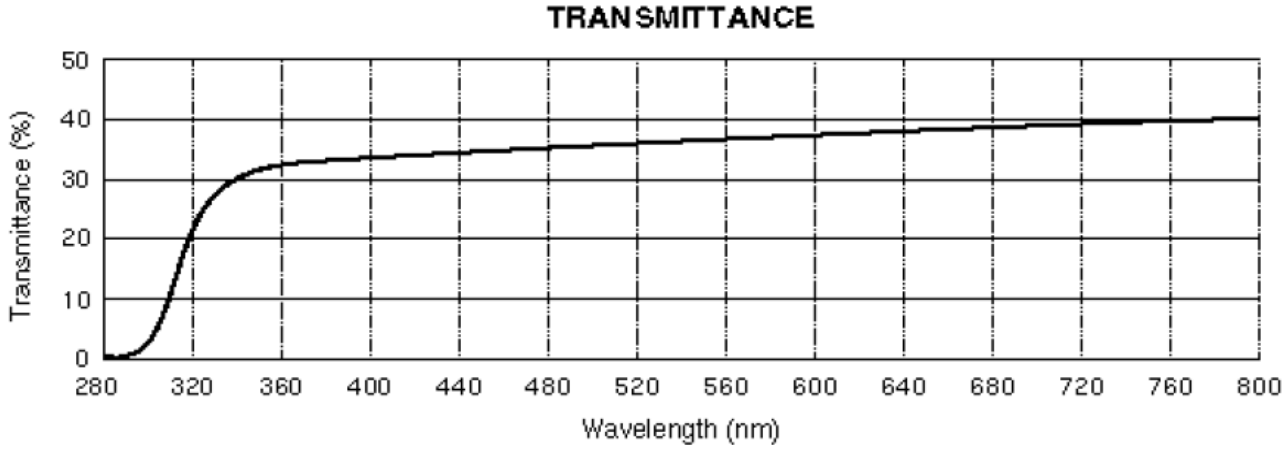
Thermal conductivity at 90°C λ = 1.06 W/(m • K). Transformation temperature Tg = 521°C
Mean linear thermal coefficient of expansion α
(20-300 °C): 9.5 • $10^{-6}\ K^{-1}$

Mechanical Properties

Compressive strength 800-930 N/mm^2
Bending tensile strength 30 N/mm^2 (characteristic value)
Density ∂ = 2.6 g/cm^2

Dimensions:

Thickness (mm)	Max Dimensions
2.7mm - 3.3mm	55" x 67"
4.0mm - 5.0mm	55" x 67"



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