



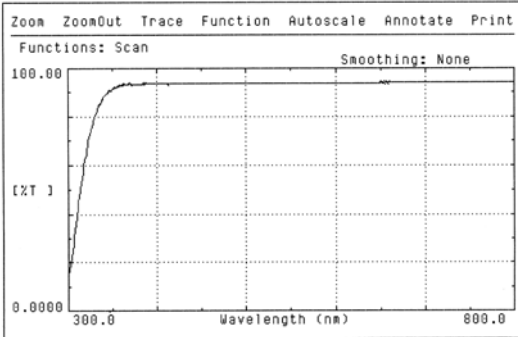
Technical Data Sheet

Formatt Optical Flats- Technical Specification

Formatt Optical Flats are made from Schott-Desag B270 crown glass.

Crown glass is created by melting products of the highest purity and is free from lead and iron .

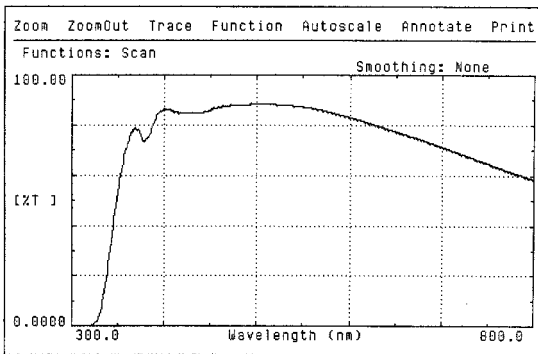
The diagrams below show the light transmission achieved with B270 crown glass compared to green float glass.



Transmission Values B270

The principal characteristic is the straight smooth curve through all the values of the visible spectrum. (390 – 780 nm)

It is for this reason that B270 is used for the highest quality optical systems.



Transmission Values Green Float Glass

As a comparison the more commonly found green float glass transmission curve is shown above. It can be seen that the curve is below the 90% transmission level for more than 50% of the visible spectrum and tails off considerably above 600 nm. This means loss of colour at the red end resulting in a colder image.

B270 Technical Characteristics

Refractive Index	1.5251 ± 0.001
Abbe Value (V _d)	58.5
Luminous transmittance (t _v)	Min 91.6 % at 4mm thickness
Knoop Hardness (HK ₁₀₀)	542

Formatt Optical Flats Standards

Formatt optical flats are precision lapped and polished to a nominal thickness of 3.00 mm ± 0.05mm.

Polishing standards are to better than λ/4 over Ø 25mm. (λ = 633nm)

This compares with all internationally acceptable standards for high quality optical components.

Each Formatt optical flat is accompanied by its personal certificate of conformance which carries the interferometer image of the polished surface.

Formatt Optical flats are available in all sizes up to 165mm x 165 mm.

Circular optical flats are available in:

48mm; 53mm; 72mm; 77mm; 82mm
85mm; 86mm; 105mm; 127mm; 138mm; 152mm

For any other sizes please ask for a quotation.

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Formatt Glass Filters

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