

GLASS CHARACTERIZATION



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Using the thermo-optical measurement technique (TOM), it is possible to determine a large variety of properties of Glass and (Glass) Ceramics. Among the range of properties, the following data can be measured:

- CTE (Coefficient of thermal expansion), from room temperature up to temperatures above T_g
- Density
- Viscosity (bar bending; fiber elongation)

- Contact angle
- Thermogravimetry
- Glueing/wetting behavior
- Haze formation/crystallisation
- Melting behavior starting from raw materials
- Glass bubble formation
- Strain formation

As an unique feature, it is possible to measure several of these properties in combination at one sample during one experiment, to get direct correlations.

The properties can be analyzed at temperatures of up to 1750 °C (air) or 2300 °C (oxygen free).

Technical data

- Dimensions H x W x L:
700 x 700 x 1600 mm
- Max. T: 1750 °C or 2300°C
- Measuring window: 3 mm to maximum 60 mm
- Resolution: 0.4 μm

Optional features

- Thermobalance (accuracy < 0.1 %)
- Maximum pressure module for determination of low viscosities (3-8 dPa*s)

