

55 light-transmitting double-glass components





Overview

What are the chemical properties of glass?

To quantify the chemical properties of glasses, glass manufacturers rate each glass according to four categories: climatic resistance, stain resistance, acid resistance, and alkali and phosphate resistance. Humidity can cause a cloudy film to appear on the surface of some optical glass.

Why are chalcogenide glass fibers twined?

First, the fragility of the chalcogenide glass challenged the in situ twisting of the fibers during heating and tapering. Instead, the fibers were twined before clamping into the experimental system. The purging of nitrogen (or other inert gas) was essential for eliminating water vapors from the furnace chamber.

How much UV rays can a laminated glass absorb?

Laminated glasses can transmit only 0.4 % of UV, compared to 44 % for 10mm clear float glass. A second option is to use a body-tinted glass, which will filter light selectively : for example, yellow glass absorbs mainly violet and blue light. Thirdly, glass with a low solar factor could be used to reduce the thermal effect of the radiation.

What is the difference between fluoroindate glass and ZBLAN glass?

However, despite the slightly higher thermal stability of fluoroindate glass ($T_g \approx 300\text{ }^\circ\text{C}$ for InF 3 and $T_g \approx 280\text{ }^\circ\text{C}$ for ZBLAN glass 40), it requires faster cooling rates of glass-forming melts than fluorozirconate glass. Contrary to ZBLAN in the fluorozirconate glass family, there is no golden standard for InF 3 -based glass composition.



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