

Solar glass testing





Overview

The testing process for heat-strengthened and tempered glass under ASTM C1048 involves a series of rigorous tests to evaluate its mechanical properties, thermal stability, and visual inspection. Why do solar panels need to be inspected?

Especially critical are those defects that occur at the edges of the glass sheets – an area usually not covered by standard vision systems. Micro-cracks and chips of the solar glass panels are a major cause of glass breakage and their detection is important for assuring highest quality standards.

Does solarinspect detect glass defects?

SolarInspect provides this capability parallel to the glass defect detection. Furthermore, SolarInspect can detect glass defects at the edges of the substrate, which helps to avoid unexpected glass breakage in subsequent production and in the final product.

Why should you use solarinspect?

Furthermore, SolarInspect can detect glass defects at the edges of the substrate, which helps to avoid unexpected glass breakage in subsequent production and in the final product. In the production of crystalline solar modules patterned glass substrates are used in lieu of bare glass. Patterned glass increases the amount of incoming sunlight.

Why is patterned glass used in crystalline solar modules?

In the production of crystalline solar modules patterned glass substrates are used in lieu of bare glass. Patterned glass increases the amount of incoming sunlight. Common optical inspection systems for quality assurance and process control are mostly designed for unstructured glass.



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[ASTM C1048 - Heat-Strengthened and Tempered Solar Glass Testing](#)

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