

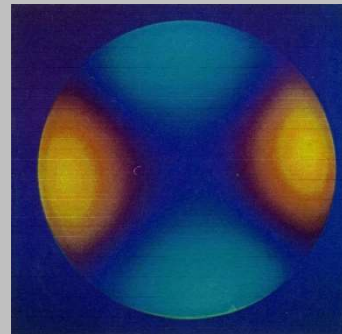
PS-100-C148 Polarimeter FOR POLARISCOPIC EXAMINATION OF GLASS CONTAINERS IN ACCORDANCE WITH ASTM C148



Strainoptics' PS-100-C148 is the Polarimeter System you need to measure glass containers in accordance with ASTM C148 *Standard Test Method for Polariscopic Examination of Glass Containers*. The PS-100-C148 is a modular system that is sold with a set of five standardized strain disks that are used as reference standards to compare polariscopic colors exhibit by containers. The instrument is also sold with our RPLP-100 Full Wave Tint Plate. The Strainoptics PS-100-C148 Polarimeter System has a 200 x 200 mm viewing area and a plane polarizing illuminator and analyzer, which is calibrated in degrees for temper number. If you are measuring your glass containers in accordance with ASTM C148, this Strainoptics system is a must.

Strainoptics' Strain Disk Set

The Strain Disks are used a reference standards to compare polariscopic colors exhibited by containers against colors exhibited by the reference disks. Strainoptics' set consists of five standardized glass disks, each exhibited 22.7 nm retardation 6mm (0.25 in) from the edge. The inspector compares the highest order retardation color observed at the container bottom to the color seen in one, two, three, four or five strain disks stacked on top of the other.



By following a very simple procedure, the Temper Number of container bottoms and side walls can be easily identified using strain disks. ASTM C148 assigns a scale of Temper Numbers which correlate to retardation measured with a polarimeter as follows:

ASTM Temper Number	Retardation	Fringe Order	Equivalent Analyzer Rotation*
1	23 nm	0.04	00.0 – 07.3°
2	46 nm	0.08	07.4 – 14.5°
3	68 nm	0.12	14.6 – 21.8°
4	91 nm	0.16	21.9 – 29.0°
5	114 nm	0.20	29.1 – 36.3°

*ASTM C148

What's in the box?

A PS-100-BS polarimeter complete with

- a **A-100** Senarmont dual-gauge rotation precision analyzer, calibrated in degrees for temper number;
- a fixed quarter wave plate;
- a **PI-200** plane polarizing illuminator with 7.8" x 7.8" (200 x 200 mm) viewing area and LED lights;
- a **RPLP-100** full wave tint plate, which is mounted to the polarimeter and rotates in and out of view;
- a **SSD-100** set of five certified strain disks (see insert);
- a **heavy-duty case** with high density foam for transportation and storage;
- **calibration certificates** for both the polarimeter and the strain disks; and
- a **one-year warranty**.