

Products

Superior imaging | Stable performance Easy maintenance | Long durability

Sample Measurement

Qualitative Polariscope

Application

This Polariscope series adopts polarized light and photoelasticity principle to qualitatively observe, analyze and identify residual stress inside transparent crystals, glass, and plastic products.

It is mainly used for stress-related quality control in process development and production stages.

Testing method

Sensitive Tint Color Method

Testing principle

The internal stress of glass, plastic and crystal products has a birefringent characteristic. If there is stress inside these types of products, light from a polarized lamp will be divided into 2 different units, which produces optical interference phenomenon(ripple patterns) in turn.

Under white LED light, you can see colorful ripple patterns, which is caused by the presence of stress. From the observation of colored patterns, operators can see stress distribution directly, then evaluate and improve the annealing process.





PSV-202-D PSV-202-DL

Typical Application

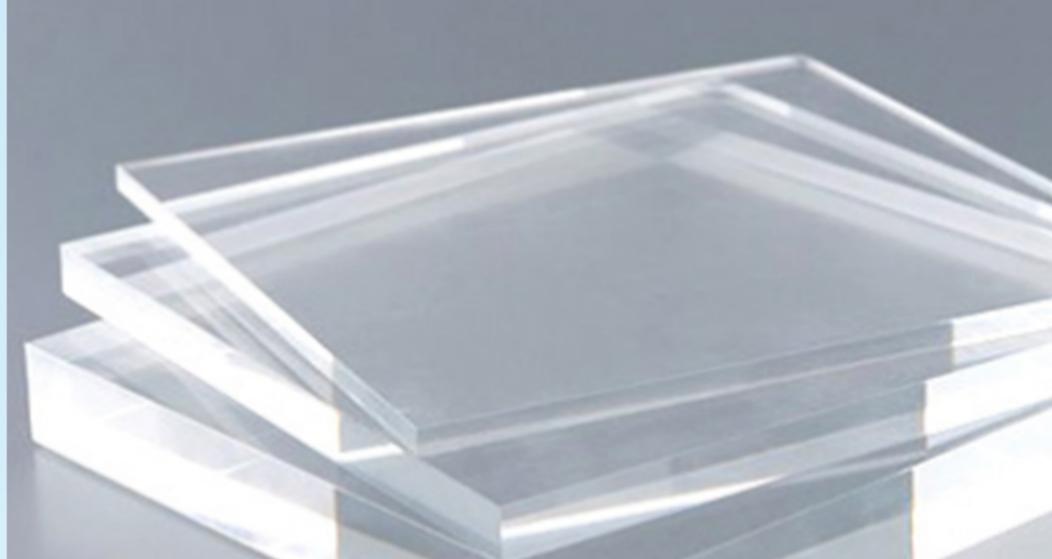
- 1. Transparent glass products, such as fused quartz components, optical glass and glassware
- 2. High transmittance crystal products, such as Sapphire bar, YAG rod
- 3. Transparent plastic products, such as preform , optical resin films,plastic sheet
- 4. Other plastic components, such as lens

Main Parameters

Part No. Item	PSV-202S	PSV-202	PSV-202-D	PSV-202-DL
Polarizer (Bottom)	Diameter 95mm	200*200mm	200*200mm	400*400mm
Analyzer (Top)	Diameter 95mm	Diameter 100mm	Diameter 100mm	Diameter 200mm
Measuring height	200mm	236mm	0-800mm	0-800mm
Dimension	140*190*295mm	310*285*350mm	300*300*80mm	571*512*130mm
Weight	2.5KG	8KG	4.5KG	18KG

Application Area

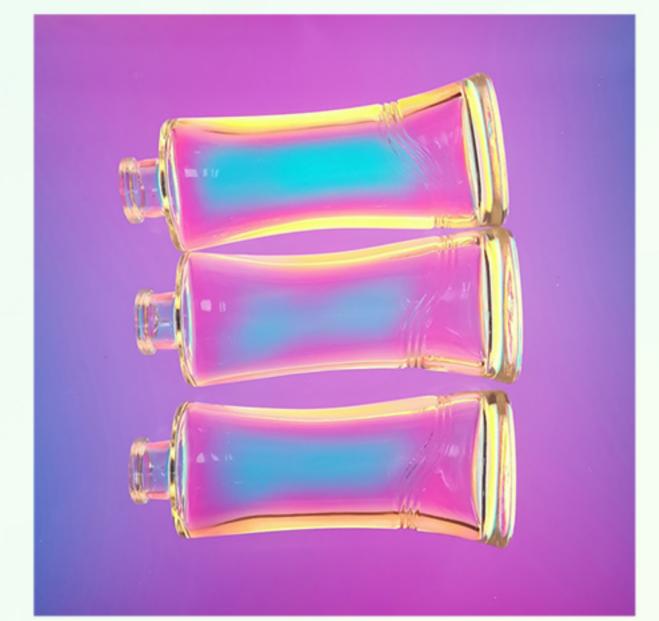






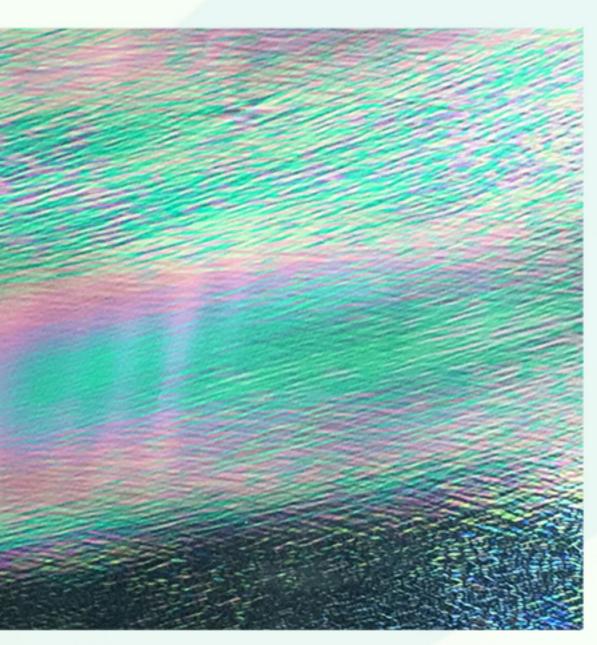
Glass Plastic Crystal

Testing Image









Glass Bottle

Optical Crystal

PET Preform

Plastic Film

Contact Us

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