

PL-P Polarization Light for Preform (PET Preform Stress Viewer)



Many of the defects found in PET container preforms can be detected by using the PL-P. Preforms viewed in polarized light exhibit a colored birefringence pattern.

The birefringence is a result of the polymer flow lines (molecular orientational strain) produced during the injection moulding process.

The colored pattern observed with preform held at 45° to the polarizing axis is known as an isochromatic fringe indicating the amount of birefringence.

When the preform is held parallel to the polarizing axis a black isoclinic can be seen indicating the direction of the molecular orientational strain.

By correctly interpreting these flow patterns many preform defects can be detected.

With angle adjusting design, operator can view the preform as their most convenience angle. And with the upgraded wider viewing area and sample platform, more preforms could be placed and viewed in the same time. It also frees the hands of operator.

Specifications

Viewing area:	330mm x 150mm
Overall size:	400(L) x 302(W) x 315(H) mm
Light source:	45 watts (LED lights)
Power supply:	AC 220V (AC 110 V optional)



Parallel view and 45° view of preform by PL-P

Optional models:**Viewing area 350 x 350mm****APL - With preform support, auto or manual rotation**

APL is a model that with auto rotation design, preforms are able to rotate freely, view in 360°. Multi-positions of preform finish support, able to observe multiple samples at the same time, higher efficiency and more convenient

Specifications APL-24P (other positions by order):

Viewing area:	380mm x 164mm * 3
Overall size:	525 (L) x 420 (W) x 850 (H) mm
Light source:	81 watts (LED lights)
Power supply:	AC 220V (AC 110 V optional)