

**P8100**  
series

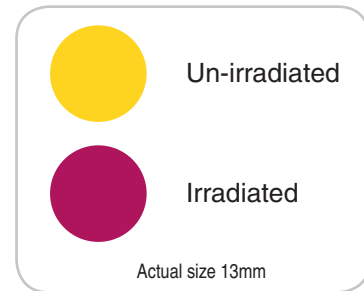
# Radiation Indicators



**GEX CORPORATION**

## PRODUCT SPECIFICATIONS

- For use in gamma, electron beam and X-ray sterilization applications
- Noticeable color change indicating radiation exposure
- Easy to remove from peel-off paper backing
- Permanently adheres to any label, package or box surface
- Meets AAMI ST60, ISO 11140 and ISO/ASTM 51539 guidance documents



## PERFORMANCE

The P8100 series Radiation Indicator turns from an un-irradiated yellow/orange color to red at 3.0 kGy, and on to a deep red or reddish-purple at 10 kGy and above. The color of the indicators, irradiated and un-irradiated, has been shown to remain stable for 18 months.

## APPLICATIONS & USAGE

The P8100 series Radiation Indicator is ideal for maintaining inventory and quality control, providing an additional quality control check and eliminating uncertainty. By labeling products with the P8100 you have a visual indicator of whether or not a product has been irradiated, making segregation and verification of inventory fast and inexpensive. The P8100 can also be used to provide visual identification of single and double-sided processed products during an irradiation process.

The P8100 has superior adhesive properties and can be attached to most surfaces. However, experiments have shown that the P8100 may not adhere well to certain polymers such as polypropylene. Application on any surface should be tested by the user. The P8100 should be used for inventory and process control purposes only and should never be used in place of dosimeters. For further information about indicator usage, reference ISO/ASTM 51539.

## STORAGE CONDITIONS

Un-irradiated P8100 series Radiation Indicator labels should be stored at room temperature (15-25° C). Moderate heat (up to 40° C) will not adversely affect the response of the radiation indicators. However, excessively dry or humid environmental conditions may adversely affect the function of the radiation indicator. Avoid exposure to direct sunlight for more than 30 minutes. The indicators are supplied with a Lot Number and a recommended "Use By" date to control performance quality levels of the adhesive (15 months from the date of product manufacture). Users are encouraged to apply the indicators on or before the "Use By" date.

## QUALITY CONTROL

Each batch of indicators are quality tested and GEX Corporation follows ISO9001 quality practices. A certificate of conformance is prepared for each shipment.

## SAFE DISPOSAL

P8100 Radiation Indicators are prepared using non-reactive materials – a polyvinyl butyral coating with an ethanol-based dye. The labels are non-toxic and can be safely discarded in general waste receptacles. A Material Safety Data Sheet (MSDS) is not required, per CFR 1910.1200.

## MANUFACTURING MATERIALS

Substrate: ~70 µm paper  
Adhesive: Ucecryl PC 91 (Acrylic based emulsion)  
Release Liner: ~70 µm Silicone Release Liner  
Indicator Ink: PVB based coating

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