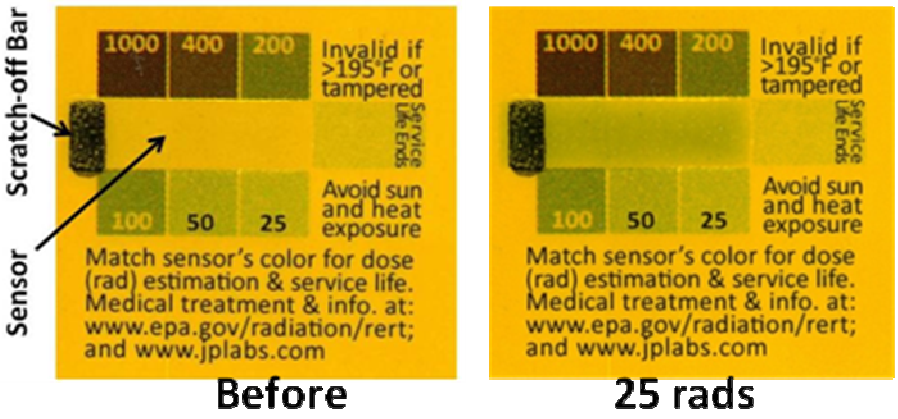
JP LABORATORIES, INC

RADSticker™

RADSticker™ is a peel-&-stick, postage stamp sized, instantly color developing casualty dosimeter. It is always ready and can be with you 24/7 in the event of a radiation emergency. It requires no power and has no electronics or moving parts. It is also reliable, rugged and useful for triaging radiation exposure information and medical treatment. Just stick it on any item that you carry with you, such as a wallet or credit card, to know your exposure immediately and independently. It will give you peace of mind and minimize your worry that you have not been exposed to harmful high dose (25 rads) or it will indicate if you need medical treatment. By carrying a RADSticker, one minimizes the possibility of becoming a dosimeter (e.g., by taking and analyzing a blood sample). See the back for the properties of RADSticker.



RADSticker, a member of the **SIRAD**® (**S**elf-indicating **I**nstant **R**adiation **A**lert **D**osimeter) family of dosimeters, is made under USP # 7,227,158; 7,476,874 and others. The SIRAD technology was developed with multimillion dollar funding from several US agencies, such as DHS, DOJ, DOS, DOD, DHHS and TSWG and was field tested by the DHS with 800 first responders for eight months in the states of NJ, NY and IL. The technology is recipient of the 2004 Frost & Sullivan "Excellence in Technology" Award and the 2005 "R&D 100" Award as one of the 100 Most Technologically Significant New Products of the Year. It received widespread press coverage in the Wall Street Journal (front page), Chicago Sun-Times, Associated Press (worldwide), and ABC News (headline) & BBC World News.

Why you need to carry a RADSticker?: People and governments around the world are concerned about major radiation incidents, such as a terrorist attack using a dirty bomb or a small nuclear device, an accident at a nuclear power plant (e.g., Chernobyl, Ukraine) and mishandling of a radiation source (e.g., Goiania, Brazil). Such incidents could cause a massive disruption in our lives, wide spread panic and worry about individual exposure to radiation. Accidents as a result of panic can cause more injuries and deaths than exposure to radiation. The problem with radiation is that it can't be seen, smelled or felt and it can cause cancer, injuries or deaths. Hence, affected people want to know their radiation exposure immediately, *"Did I receive a harmful exposure to ionizing radiation? Will I be OK or will I develop cancer in future?"*. First responders (military, police, firefighters, medical personnel, etc.) need to quickly assess radiation exposure among the affected to ensure that immediate treatment is provided to those who need it the most. RADSticker answers those questions instantly and cheaply. RADSticker is the most inexpensive way to minimize panic and worry amongst the public, for any government in an event of a major radiological incident.

(See the other side for properties of RADSticker)

Properties of RADSticker™

(See the other side for basic information)

- **Sensor:** Develops a green/purple color and provides an early warning (25 rad) to users and guides physicians (50-1,000 rad) in determining medical treatment
- **Dose range:** 25 – 1,000 rads, Cumulative, **Response retention**: Full
- **Response time**: Instant, 90-95% color development within minutes, the rest within hours
- **Uncertainty**: Visually: ±25%, Colorimetry: ±10%, **Effect of dose rate**: Negligible
- **Size:** Postage stamp sized, 3cm x 3cm x 0.2mm , Weight: 0.2g
- **False signal**: A scratch off bar for detecting UV/sunlight false signal
- **Energy dependency**: Independent of energy, some attenuation of low energy radiation
- **Effect of temperature of radiation**: Negligible (less than 0.1%/^{o}F over -5^{o}F/-20^{o}C to 140^{o}F/60^{o}C)
- **Effect of average humidity**: None
- **Laundry resistance**: Passes a few residential laundry cycles
- **Maximum operating temperature**: ~195^{o}F/90^{o}C for a maximum of six hours (Temperature on a car's dashboard under direct sunlight can reach 185^{o}F/85^{o}C).
- **Effect of sunlight:** Slight for a week under average sunlight (a few days of summer sunlight).
- **Effect of ambient/fluorescent light:** Negligible for a week
- **Support equipment**: None needed to estimate dose
- **Service life:** 3 years at 22^{o}C or color development equivalent to 10 rads with "Service Life Ends" bar.

For more information
http://www.jplabs.com/sticker.html
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