

RESISTGARD®

RESISTGARD® lightshields are the cost-effective answer for protection of semiconductor and other types of emulsions.

Our specially-formulated polycarbonate allows for a whiter light, while providing effective protection.

- Reusable tubes are guaranteed for 5 years
- Available with sealed end caps for the ultimate in cleanroom protection
- White and Red shields for other applications

SAFELIGHT SHIELDS



WET PROCESS
MODULES AND SYSTEMS

ACCU-BATH®
with AquaSeal®
Constant temperature baths
Nitride Reflux Systems

ACCU-MEG™
Megasonic Cleaning Systems

ACCU-HEAT®
In-line Quartz Heaters

ACCU-SONIC
Ultrasonic Cleanings Systems

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IMTEC®

SAFELIGHT SHIELDS

GOLD SHIELDS: EFFECTIVE LIGHT BARRIER

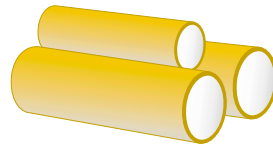
A specially formulated, reusable protective shield (sleeve) that, placed over any cool-white fluorescent tube, holds back all light from 0 to 530 nanometers. It affords better protection for common semiconductor photoresists and certain other photo emulsions than do the standard gold fluorescent tubes – and yet gives a “whiter” light and up to 50% more illumination. Further monetary savings can be achieved over the life of the RESISTGARD® by using energy-saving fluorescent tubes.

HIGH IMPACT STRENGTH, THERMAL STABILITY

RESISTGARD® is made of dye-impregnated polycarbonate, a high-molecular-weight, low-crystalline engineered thermoplastic, having exceptionally high impact strength over a wide temperature range. Polycarbonates are noted for their excellent combination of toughness, heat and flame resistance and dimensional stability. Generally, they are unaffected by grease, oils, and acids. Polycarbonate tubes are approved by OSHA as a safe covering for fluorescent tubes; most other plastic materials manufactured with styrene, acrylics, and other compounds, are not.

LONG LIFE

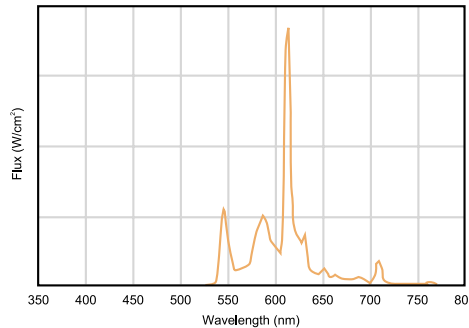
Accelerated aging tests of RESISTGARD® over fluorescent tubes have shown there is no apparent deterioration or darkening of the sleeve over an 8-year life. Heat sinks are available for use with these shields when covering high-output fluorescent tubes. Warranty, in proper use, for five years.



The RESISTGARD® Lamps & Shields are specially formulated to insure perfect uniformity with maximum illumination. RESISTGARD® Polypropylene ends caps allow metal lamp ends to be exposed for a perfect fit even in tandem fixtures.

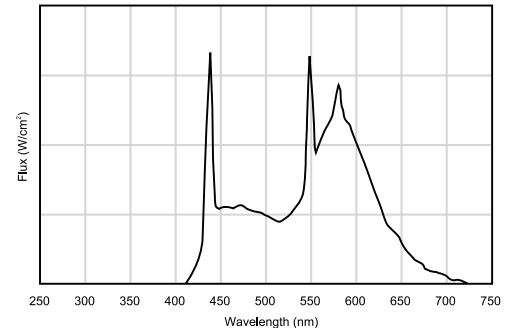
Cut-Off Shields with up to 50% more lumen output

RESISTGARD® TRANSMITTANCE CHARTS



RESISTGARD® Gold Shields

Graph of spectral output curve shows light output vs. frequency of IMTEC RESISTGARD® Gold Shield over a standard cool-white fluorescent tube. Absolute cut-off at 530nm.



RESISTGARD® ULTRA WHITE Shields

Graph of spectral output curve shows light output vs. frequency of IMTEC RESISTGARD® ULTRA White Shield over a standard cool-white fluorescent tube. Absolute cut-off at 417nm.

ULTRA WHITE SHIELDS

“ULTRA” White shields for elimination of UV and Violet light, with an absolute cut-off of 0 to 417nm, are also available. These units can be supplied as shields or sealed units in sizes T-12 and T-8 in a variety of lengths. Contact your local IMTEC representative for more information.

SPECIFICATIONS

- **SIZES (nominal feet):** 2', 3', 4', 5', 6', 8' and mid-connectors for T-5, T-8 & T-12 lamps. Special sizes are available upon request.

- **THICKNESS:** .030" nominal polycarbonate wall.
- **LIFE EXPECTANCY:** 8 years or more without crazing or discoloring. Includes a limited 5-year guarantee.
- **MAINTENANCE:** Washes with plain soap and water – rinse & dry.

RED SHIELDS: PHOTO PLATE SAFEGUARD

H.R.P. Red Shields with an absolute cut-off of 0 to 650nm are available. These sleeves are used to protect High Resolution Photo plates and films, or other emulsions and films in the same sensitivity range.