

# High Reflectivity Components



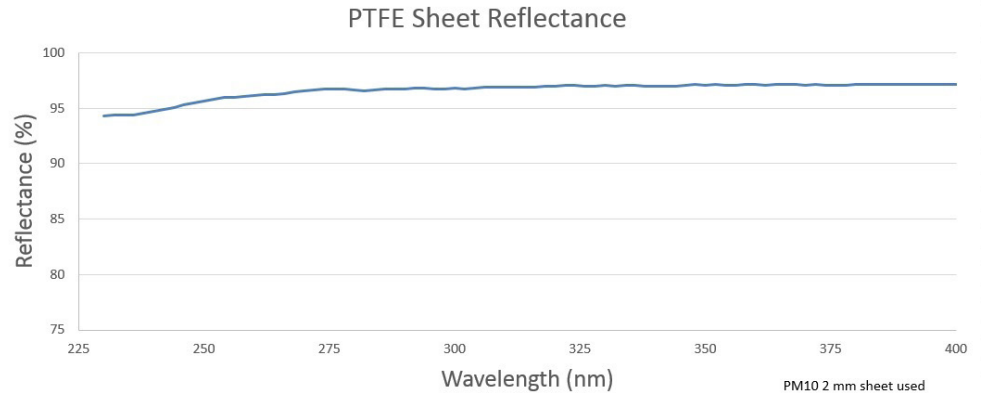
## Application Areas

- Water disinfection
- Surface sterilization
- UV curing
- Medical phototherapy
- Horticulture
- Air purification
- Reuse water and wastewater treatment
- Ballast water treatment
- Industrial effluent treatment
- Cosmetic curing
- Laboratory and diagnostic applications
- Photometry

## Maximize UV for Disinfection Applications

Porex sintered PTFE sheet and molded 3-D parts are ideal for ultraviolet light reflectivity. With over 97% average reflectance from 250nm to 400nm, Porex pure PTFE reflectors can maximize disinfection rates and minimize system cost.

## Outstanding Ultraviolet Reflectivity



## Maximizing Disinfection with UV chambers

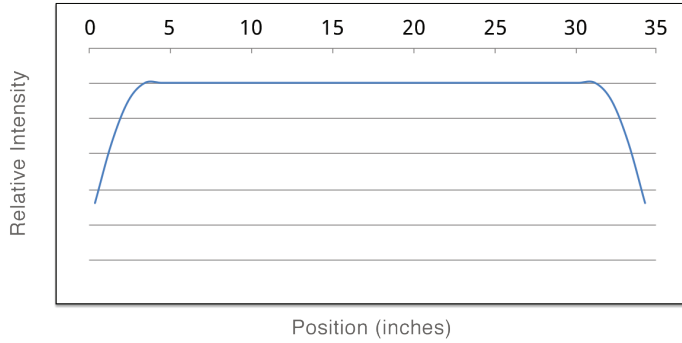
It is useful to maximize energy usage to more thoroughly disinfect water in a chamber or conduit. UV photons are recycled in a PTFE-lined chamber; the light is reflected to maximize disinfection in a tube, trough or chamber. Because Porex PTFE reflects diffusely, the UV energy is spread, and the entire volume and all surfaces are evenly irradiated.

## Eliminate Hot and Cold Spots

Porex sintered PTFE has almost perfect diffuse reflectance. Since light is scattered in all directions, the UV light can be spread evenly across a surface, thereby eliminating cold spots where bacteria may survive.

### Porex Diffuse Reflectors

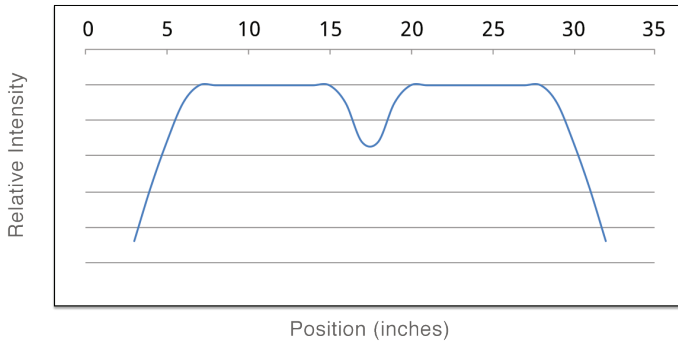
UV Uniformity With 2 Irradiators



Uniform light intensity

### Metallic Parabolic Reflectors

UV Uniformity With 2 Irradiators



Areas of Diminished light intensity

\* Graph data is based on theoretical irradiance patterns of two point bulbs.

## About Porex

Founded in 1961 and based in Fairburn, GA, Porex is a pioneer and global leader in the development and manufacturing of sintered porous plastic products. Porex is widely recognized for its materials science expertise and proprietary designs which serve over 1,300 customers across more than 65 countries via operations in North America, Europe and Asia.

Constant innovation, outstanding technological resources, commitment to quality and dedication to customer service distinguish Porex products as the standard of performance.

**For more information** about Porex Corporation, visit [porex.com](http://porex.com).



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