Fotolec Technologies T8 FEP Heat Shrink Tubing Data Sheet

Product Description

A high temperature FEP Fluoropolymer tubing which when externally applied to fluorescent lamps will contain glass fragments in the event of breakage in compliance with IEC 61549.

Product Features

- Lamps with the tubing applied will be suitable for open and enclosed fixture operation.
- Tubing service temperature range -70°C to +200°C
- The tubing service life is equal to or greater than the lamp life.
- 96% UVA transmission.
- Tubing manufactured & tested in accordance with ISO9001:2015

Product Benefits

- When tubing is applied externally to fluorescent lamps it will provide an industry compliant glass free environment protecting products and personnel in the event of an incident.
- Tubing complies with retail hygiene audits.
- Tubing is inert to acids and alkalis.
- Tubing will not discolour or degrade from UV radiation.

Application

- Fluorescent lamps coated can be used for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens (FDA 21CRF177.1550 Food Contact Compliant).
- Coated lamp suitable for conventional or electronic control gear installation.

Environment

- Coated lamps protect surrounding areas from contamination in the event of a breakage.
- Tubing material is recyclable and REACH compliant.

Material Properties

Tensile strength (MPa) $\geq$ 24

Elongation at break (%) $\geq$ 300

Melting Point (^{o}C) 265 $\pm$ 10

Breaking down voltage (KV/mm) 20~24

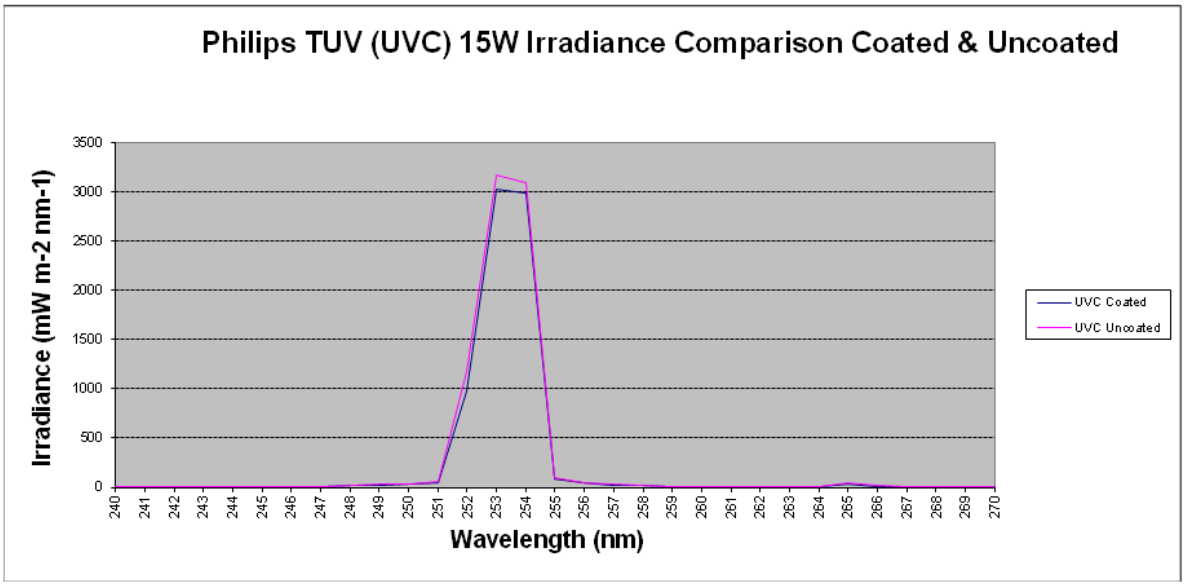
Volume resistance (Ω-cm) $1x10^{16}$

Dielectric constant (10^{6}HZ$\geq$) 2.10

Dielectric loss tangent (10^{6}HZ) $3.0x10^{-4}$

Thermo-stress craze resistance is very good

Example of irradiance transmission through the tubing FEP material



Sleeve Capability

T8 Tubing pre-shrunk Inside Diameter (mm) 27.5 approx.

T8 Tubing fully shrunk Inside Diameter (mm) 23.6 approx.

Tubing can be supplied in specified cut lengths or on continuous reels.

Shrinking temperature recommendation for application onto lamp 110° to 150 ^{o}C