

Fotolec Technologies Ltd T12 FEP Heat Shrink Tubing

Product Description

Lay flat FEP heat shrink tube supplied on continuous reels for the sleeving application of T12 fluorescent lamps. Sleeving offers anti shatter and impact resistance (containment of glass). When applied to UVA fluorescent lamps peak output is only reduced by -4% due to excellent photometrical properties, ideal for the application to insect attracting lamps in food or other sensitive environments as well as standard output lamps.

Product Features

- Lamps with FEP sleeve applied will be suitable for open and enclosed fixture operation.
- High & low temperature service range -70°C to +200°C.
- FEP sleeve service life up to 50,000 hours
- 96% UVA transmission.
- Manufactured & tested in accordance with ISO9001:2015.

Product Benefits

- Renders T12 fluorescent lamps shatter resistant
- Complies with hygiene audits.
- Sleeving inert to all acids and alkalis.
- Will not degrade under UV radiation.

Environment

- Sleeved lamps protect surrounding areas from contamination in the event of a breakage.
- Tubing material is 100% recyclable and REACH compliant.

Material Properties

Tensile strength (MPa) ≥ 24

Elongation at break (%) ≥ 300

Melting Point ($^{\circ}$ C) 265 ± 10

Breaking down voltage (KV/mm) 20~24

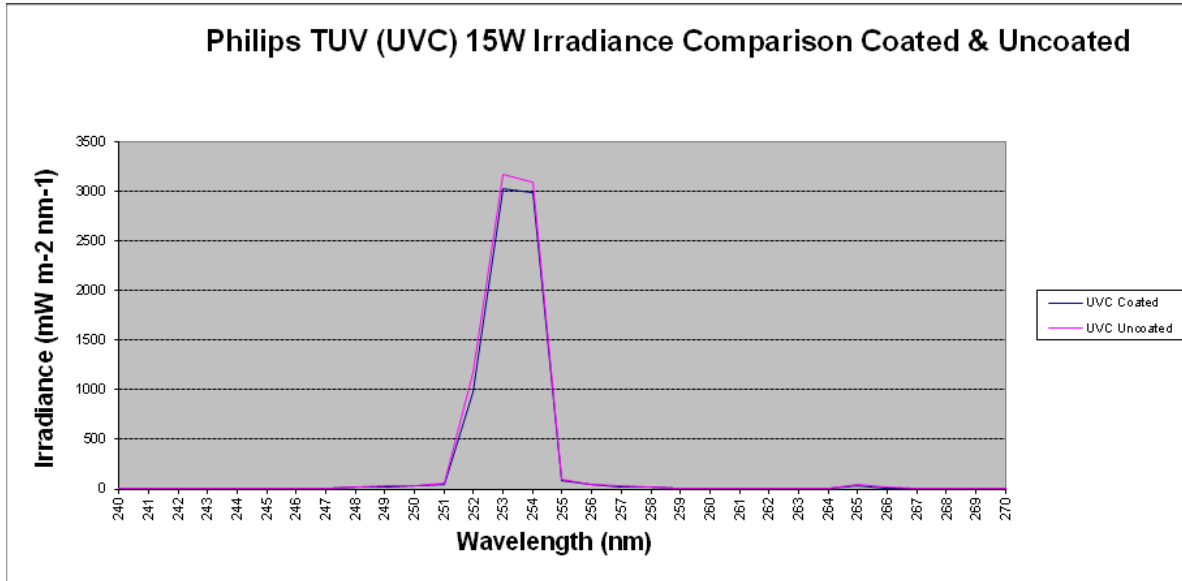
Volume resistance (Ω -cm) 1×10^{16}

Dielectric constant (10^6 Hz \geq) 2.10

Dielectric loss tangent (10^6 Hz) 3.0×10^{-4}

Excellent thermo-stress craze resistance

Example of irradiance transmission through the tubing FEP material



Sleeve Specification

Wall thickness after application to T12 fluorescent lamp 0.235mm to 0.265mm (± 0.030mm)

Supplied Lay Flay 60mm

Shrinking temperature range recommendation 110° - 150°C

Continuous reel size norm 100m.

Larger reels sizes upon request.

Pre-shrunk OD: 39.5mm

Fully recovered OD: 36.8mm