

Safety Coated Fluorescent Lamps

Certifications

Encapsulite® Safety Coatings Comparison Chart

ULTRAGUARD	PROGUARD
DuPont FEP	Polycarbonate PC
Designed for T5, T5HO, T8 & T12 lamp types	Designed for standard T8 and T12 lamp types
Designed for Long Life Lamps in excess of 40,000 hours	Designed for lamps 24,000 hours or less
For use in open or closed fixtures including vapor or water proof fixtures	For use in open fixtures
Max ambient temperature is 400°F	Max Ambient temperature is 135°F
Excellent Chemical Resistance	Good Chemical Resistance (no ammonia or solvents)
Transmits UV Emissions	Blocks UV emissions (100-380nm)
UL recognized for Safety	UL recognized for Safety
UL EPH certified (Environmental and Public Health)	UL EPH certified (Environmental and Public Health)
Coating Warranty: Average Rated Life of Lamp	Coating Warranty: 1-Year

EncapSulite International's shatterproof safety coating is the leader in the lighting industry. The only safety coating UL Recognized for Safety and UL-EPH certified for environmental and public health. EncapSulite safety coated fluorescent lamps are acceptable for incidental food contact in federally inspected food, meat and poultry plants. The chemical constituents of the product and surface characteristics of the EncapSulite Safety Coatings are in compliance and meet current FDA, USDA and OSHA standards.

APPLICATIONS

Food processing areas, dairies, manufacturing areas, hospitals, bakeries, schools, gymnasiums, cafeterias, restaurants, poultry plants, and slaughter houses.

LOW COST - QUALITY PROTECTION

The design of the lamp requires no assembly and allows fast easy installation. The durable smooth coating is easy to clean with nothing more than a damp cloth. EncapSulite lamps are available in all lengths, T5 (5/8 inch), T6 (3/4 inch), T8 (1 inch), T10 (1-1/4 inch) and T12 (1-1/2 inch) diameters.

WE DELIVER

EncapSulite is committed to providing you with SOLUTIONS to your lighting requirements. EncapSulite products are problem solvers. You can be assured that EncapSulite will guarantee you fast, accurate delivery of your shatterproof fluorescent lamps.

COMPLIANCE DOCUMENTATION / LOW MERCURY CONTENT LAMPS / SAFETY & DISPOSAL OF ENCAPSULITE POLYMER SAFETY COATED LINEAR FLUORESCENT LAMPS

EncapSulite's linear fluorescent safety coatings are both UL Recognized & UL-EPH Certified: UL Recognized Safety Coating (UL File No. SA10645) - Safety and UL - EPH / Certification (UL File No. SA12675) - Food Applications

If in the rare case that an EncapSulite safety coated lamp is broken, virtually all of the glass, mercury and phosphors are contained inside the high temperature, high mechanical strength EncapSulite coating. Employees, products and manufacturing sites are totally protected. Disposal or recycling is safe and easy.

If an unprotected lamp is broken during maintenance, lamp changes or accidentally, your employees, food products and equipment can be exposed to broken glass, phosphors and mercury. Disposal of broken glass requires the handling of unprotected glass shards and other chemicals.

The EncapSulite ProGuard Coating also offers the additional benefit of blocking all UV transmission between 100 and 380 nanometers.

LLD - Lamp Lumen Depreciation - The unique EncapSulite polymer safety coatings reduce light (lumen) output by approximately 1 % when compared to an uncoated lamp.

EncapSulite purchases all of our linear fluorescent lamps from major NEMA manufacturers. The mercury content of the lamps that we safety coat has been reported and is on file with IMERC Interstate Mercury Education & Reduction Clearinghouse.

EncapSulite's Safety Coatings are in compliance with all FDA - USDA - OSHA regulations and the following regulations.

SANITATION REQUIREMENTS FOR MEAT AND POULTRY ESTABLISHMENTS CHAPTER 5. SECTION 1 - USDA

USDA - "Lighting fixtures in rooms where exposed meat or poultry is handled should ensure maximum safety, to preclude contamination of products with broken glass and prevent collection of dirt, product and debris on lamp surfaces"

FDA PLANT CONSTRUCTION AND DESIGN - 110.20 SECTION B. PART 5

FDA - Food Processing - "provide safety-type light bulbs, fixtures, skylights, or other glass suspended over exposed food in any step of preparation or otherwise protect against food contamination in case of glass breakage."

FDA FOOD CODE - CHAPTER 6. SECTION 202.11

FDA - Food Service - "shielding of light bulbs helps prevent breakage. Light bulbs that are shielded, coated or otherwise shatter-resistant are necessary to protect exposed food, clean equipment, utensils and linens, and unwrapped single-use articles from glass fragments should the bulb break."

OSHA HAZARD BULLETIN - 19970715

OSHA - Potential Fire Hazard with Fluorescent Light Bulbs with Plastic Tubes - "replace fluorescent light bulbs that were equipped with protective sleeve coverings and end caps with a shatterproof bulb that is easier to install, in order to eliminate this potential fire hazard."

ENCAPSULITE INTERNATIONAL INC. UNDERWRITERS LABORATORIES INC. - PHONE NUMBER (408) 985-2400 UL FILE NO. - SA10645 - UL FILE NO. - SA12675

Product Covered: Component - "Miscellaneous Refrigeration Equipment: Fluorescent Lamp Tubing, Series Shatterproof ShardGuard Coating, also, shatterproof coating."

General Description of Material: "These plastic tubing's are safety-coated over fluorescent lamps in order to prevent the release of glass shards in case of impact. It is intended for indoor use only.

Material Modifications: "There shall be no changes in the formulation or composition of the material unless previously cleared through Underwriters Laboratories Inc.,"

Product: "Shatterproof Safety Coating and Shatter-Proof Coating are identical."

UL Marking: Recognized Company name, File No.SA10645, or trademark "ENCAPSULITE" and product designation on shipping carton or finished product.

UL Marking: UL EPH Classified "NSF Criteria C-2 or FDA Food Code, Chapter 4.

Engineering Considerations - (1) The product is identified in accordance with Marking given above. (2) The lamp tubing was evaluated for UL 94HB flammability test. Samples of the plastic tubing installed onto fluorescent lamp were subjected to this test. (3) The lamp tubing was subjected to a 0.75 ft-lb impact test per UL 471 - Eighth Edition. Paragraph 21.4.

The engineer must consider need to investigate the part for other than flammability and impact such as electrical or mechanical properties, in accordance with applicable UL end-product standard or requirements outlined in the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations. UL 746C.

SANITATION



"NSF CRITERIA C-2" OR
"FDA FOOD CODE, CHAPTER 4 #"
27ST



"NSF CRITERIA C-2" OR
"FDA FOOD CODE, CHAPTER 4 #"
27ST

EncapSulite® International Inc. takes great pride in being the ONLY safety coater in the United States able to provide a coating that is both UL Recognized for Safety and UL-EPH Certified for Food Applications. The UL-EPH certification and the UL Recognized component recognition for the coating insure that we are in compliance with all FDA, USDA and OSHA requirements.