

Lighting Filter



Product Description

Flexible lighting filter, normally used on lighting fixtures to colour or diffuse the light.

Product is composed of Polyester PET biaxially orientated film substrate, coated on both sides with a solvent soluble coloured / diffuse lacquer. Approximately 95% of the total product is comprised of the substrate.

Hazards Identification

Products are unlikely to create hazards or cause harmful effects under normal conditions of handling and use.

First Aid Measures

No specific measures are required for the normal use of material. First Aid measures only normally needed for thermal burns and for the inhalation of smoke from burning material. Treat in the same way as other thermal burns and wood smoke inhalation.

Inhalation

Remove from exposure. Obtain medical attention if ill effects occur.

Skin Contact

Molten material can cause severe burns. **DO NOT** try to peel molten polymer from the skin. Cool affected area rapidly with water. Obtain immediate medical attention.

Eye Contact

Unlikely during normal use.

Ingestion

Unlikely during normal use.

Further medical treatment is unlikely to be required but if necessary, treat symptomatically.

Fire Fighting Measures

Burning material may be accompanied by some minor melting and dripping. Combustion will evolve toxic and irritant fume / vapours. These vapours are broadly comparable to the combustion of many natural products such as wood. At complete combustion, major products formed will include carbon dioxide and water vapour.

Fire extinguishing media - carbon dioxide, dry chemical powder, alcohol or polymer foam. Use extinguishing media appropriate to surroundings.

Accidental Release Measures

It is not expected that there would be any issues regarding accidental releases during normal use. Scrap film should be swept up and disposed of appropriately.

Handling & Storage

Handling

Some film may have sharp edges, which can cause cuts. Care should therefore be taken when handling the material and where appropriate, protective gloves worn.

Care should always be taken to avoid the risk of ignition - where available, the use of filter frames or mounting facilities when using products with lighting fixtures is highly recommended.

Storage

Store at ambient temperatures. Keep away from heat and sources of ignition. Exposures to extremes of heat, cold and humidity should be avoided. Protect from damage.

Exposure Controls / Personal Protection

Where appropriate, use protective gloves to avoid cuts etc.
Otherwise, no other specific requirements.

Physical Data – Uncoated PET Substrate

Form	Film
Colour	Clear
Odour	Odourless
Flash Point (°C)	440
Density (g/ml)	1.395 – 1.410 at 23°C
Solubility (Water)	Insoluble
Minimum Ignition Temperature (°C)	480
Decomposition Temperature (°C)	>260
Upper Melt Temperature (°C)	255 - 260
Specific Heat (KJ/Kg)	1.34 at 25°C
Thermal Conductivity (W/mK)	0.14
Heat of Combustion (MJ/Kg)	23.5
Limiting Oxygen Index (%O ₂)	21

Stability & Reactivity

Hazardous Reactions None known - inert

Hazardous Decomposition Products Above decomposition temperature mainly carbon monoxide, carbon dioxide and aromatic / polycyclic aromatic hydrocarbons.

Toxicological Information

Inhalation Thermal decomposition products may be harmful and cause irritation to eyes, mucous membranes and upper respiratory tract.

Skin Contact Sharp edges may cause cuts.
Molten film will adhere to skin and may cause burns.

Eye Contact Sharp edges may cause eye damage.

Ingestion Highly unlikely during normal use.

Long Term Effects No evidence of adverse effects during normal use.

Ecological Information

Toxicological adverse effects are not anticipated.

Disposal Considerations

Dispose of in accordance with local authority and policy requirements.

Locate in suitable container for collection for:

- Recycling
- Disposal to landfill
- High temperature incineration

Transport Information

Not classified as dangerous for transport.

Regulatory Information

Not classified as dangerous for supply / use.

All reasonable care has been taken to ensure the accuracy of the information contained in this publication at the time of preparation.

It should be noted, however, that the products offered by *LEE* Filters should be considered as large volume industrial products in which the presence of traces of impurities cannot be totally excluded.

This information is based upon, and limited by, certifications, declarations and other supporting documentation provided by *LEE* Filters suppliers rather than independent tests conducted by *LEE* Filters.

The details of both formulation, properties and hazard assessment may be subject to changes and is intended as a general guide only.

