

Uses: Daikin ETFE (Ethylene Tetrafluoroethylene) resins are translucent, cylindrical pellets that offer outstanding tensile strength and compressive deformation resistance.

Automotive - straight and convoluted tubes, mono- and multi-layered tubing.

Electrical/ Other - Wire and cable insulation/ jacketing, film, tubing, bottles and other lab ware, transparent seals, moldings of thin coatings and complex shapes.

Physical and Chemical Properties: Daikin ETFE is virtually unaffected by most chemicals, but is slightly affected by very strong oxidizing acids, chlorocarbons, ketones and esters., molten alkali metals, interhalogen compounds, some amines, and finely divided metallic powder or filler.

Health and Environmental Effects: Fluoropolymers are known for chemical stability and low reactivity. These materials have demonstrated little if any toxicological activity.

The powder may form combustible dust concentrations in air.

Excessive airborne concentrations of the powder may cause reduced visibility and irritation to the eyes, skin and upper respiratory track. If smoking tobacco becomes contaminated by this material, exposure to toxic gases through inhalation can occur.

Exposure Effects of Decomposition Products: When ETFE resins are processed at temperatures above 250°C, hydrogen fluoride and other toxic fluorinated compounds may be produced. Inhalation of these compounds may result in serious lung irritation and must be avoided.

Processing Precautions: Process equipment and working area must be adequately ventilated. Normal full clean room clothing should be worn, as well as safety glasses with side shields or goggles.

Additional Resources: Guide to the Safe Handling of Fluoropolymer Resins, published by SPI (The Safety of Plastics Industry)
Daikin Product Information

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