

Uses: Daikin FEP (Fluorinated Ethylene Propylene) molding materials are high performance materials that possess thermal stability, chemical inertness, non-sticking properties, electrical reliability, long-term weather resistance, high transparency, and flame resistance.

Typical uses: Wire and cable coating, films and sheets, tubes, small parts, pipe and valve linings, and sleeves.

Physical and Chemical Properties: Daikin FEP is completely inert to attack by most chemicals except at high temperature. It is also susceptible to high-pressure elemental fluorine gas, molten alkali metals, and chlorine tetrafluoride.

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

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 FEP 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:

SDS are available upon request.

Guide to the Safe Handling of Fluoropolymer Resins, published by SPI (The Safety of Plastics Industry)

Daikin Product Information

Date of Issue: May 20, 2009