

PCTFE is a homopolymer of chlorotrifluoroethylene. PCTFE is melt processible and can be extruded or molded. PCTFE has a number of unique properties. In addition to excellent thermal and chemical stability, it has very low moisture absorption and permeation. It also is highly resistant to cold flow, is very rigid, is tough, has excellent dimensional stability and extremely good low temperature properties. It is especially applicable as a valve component material in cryogenic fluid service.

Product Overview

Product: PCTFE PF-400 has outstanding chemical stability, insulation properties, and weather resistance.

Typical Applications: It is mainly used to make molding rods, tubes, and sheets, suitable for automatic extrusion.

Availability: It is packed in a sealed PVC bag, and loaded in water content proof paper barrel. The net weight is (25±0.1) kg per barrel.

TYPICAL PROPERTIES OF PCTFE PF-400 (Data not for specification purposes)

Properties	Test Method	Unit	PF-400
Appearance			Transparent pellet
Specific Gravity	ASTM D-792		2.11 - 2.17
Tensile Strength, MPa ≥	ASTM D-638	MPa ≥	34 - 39
Elongation at Break, % ≥	ASTM D-638	% ≥	100 - 250
Melting Point, °C	ASTM D-1430	°C	210 - 212
Zero Strength Time, C	ASTM D-1430	°C	350 - 450

CERTIFICATION

- SGS Certification
- ROHS Certification
- REACH Certification
- SVHC Certification
- EU Approved

PRODUCT DESCRIPTION

PCTFE PF-400 has excellent chemical resistance, radiation resistance, and flammability characteristics. PCTFE is resistant to cold flow and it has the lowest coefficient of thermal expansion of any unfilled fluoropolymer. These characteristics make it an excellent choice when dimensional stability is critical. PCTFE is often used for aerospace applications when chemical resistance, a broad operating temperature range, and low flammability are required. It is also extensively used for cryogenic valve applications.

PROCESSING

PCTFE PF-400 can be processed by conventional melt extrusion, injection molding, compression and transfer molding processes. High melt strength and thermal stability allow the use of relatively large mold openings and high-temperature stretching techniques, resulting in increased productivity.

STORAGE AND HANDLING

The properties of PCTFE PF-400 resins are not affected by storage time. Ambient storage conditions should be designed to avoid airborne contamination and water condensation on the resin when opening and emptying the packaging.

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