

Comments for Annex XV restriction report

SECTION IV. Non-confidential attachment

10-Sep-2023

**Sumitomo Electric Fine Polymer, Inc.
Poreflon Department**

Product introduction

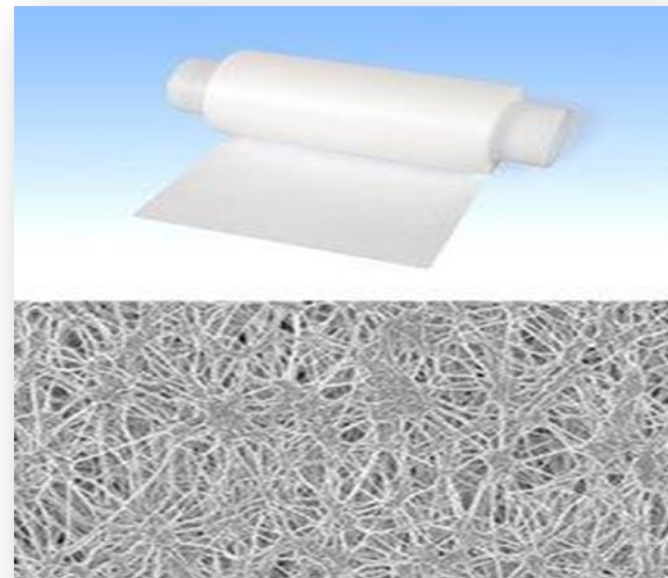
PTFE fluororesin membrane

Pore size : 0.03~10 μ m

Thickness : 10~100 μ m

porosity : 25~95%

PTFE fluororesin membrane is a technology that our company developed for the first time in the world.



Global semiconductor market

World Semiconductor Market Statistics (WSTS)

fiscal year	billion dollars
2017year	4122
2018year	4688
2019year	4123
2020year	4404
2021year	5530

2021 Market Size of Filters Used in Semiconductor Manufacturing Processes

Purpose	billion yen
air filter	305
bag filter	103
liquid cartridge	556
polymer module	365
Automotive engine filter	1170

Our fluoro resin membranes made from PTFE are mainly used in liquid cartridge filters and some automotive engine filters. Regulation of PTFE materials will have a significant impact on the semiconductor market.

Required characteristics of fluoro resin membrane as filtration material

Comparison with other resin films

○ : no or little effect

△ : There is some influence, but it can be used depending on the conditions.

× : Cannot be used due to significant impact

		PTFE	PE	PP
		Fluorine membrane	polyethylene	polypropylene
Material properties	Heat-resistant	○(260°C or less)	×(100°C or less)	△(140°C or less)
	chemical resistance	○	×	×
Membrane structure	miniaturization	○	○	△
	transparency	○	×	×
thinning		○	△	△