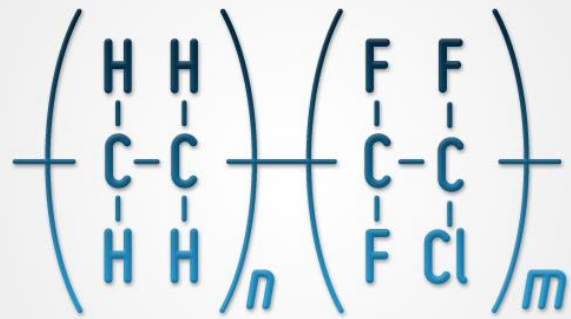


ECTFE



ECTFE (ethylene chlorotrifluoroethylene)

ECTFE, also known as Halar® has very good insulation properties.

ECTFE products have excellent mechanical, chemical and electrical properties.

Material properties

- Excellent chemical resistance
- Very low permeation value
- Excellent weather resistance and radiation resistance
- Moisture resistant
- Working temperature from -75°C to +150/180°C

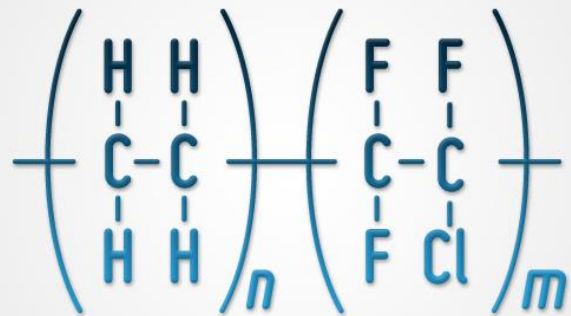
Possibilities

- ECTFE tubing
- Cleanroom ECTFE tubing
- ECTFE heat shrink tubing
- Coating with ECTFE enz.

Technical information

Because ECTFE has an excellent chemical resistance and very good insulation properties, ECTFE is often used in the chemical and electrical industry.

ECTFE



General properties ECTFE

	Property	Specification	Unit	Value
General	Continuous working temp.	Maximum	°C	150
	Chemical resistance		-	Good
	Specific gravity	D 792	g/cm ³	1.70
Electrical	Dielectric constant	D 150 at 10 ³ Hz	-	2.5
		D 150 at 10 ⁶ Hz	-	2.5
	Dielectric dissipation factor	D 150 at 10 ³ Hz	-	0.0018
		D 150 at 10 ⁶ Hz	-	0.0012
	Dielectric strength	D 149	kV/mm	40
	Volume resistivity	D 257	Ohm-cm	>10 ¹⁵
Mechanical	Tensile strength	D 1708, D 638	Mpa	32
	Elongation	D 1708, D 638	%	200
	Compressive strength	D 695	Mpa	48
	Impact strength	D 256 bij +23°C	J/m	No break
	Flexural Modulus	D 790 bij +23°C	Mpa	1660
	Tensile Modulus	D 638	Mpa	1650
	Hardness	D 2240	-	70-80
Thermal	Melting point		°C	240
	Thermal conductivity	+23°C	W/Kg.m	0.13
	HDT	DIN 75	°C	
	method A			104
	method B			71

Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application