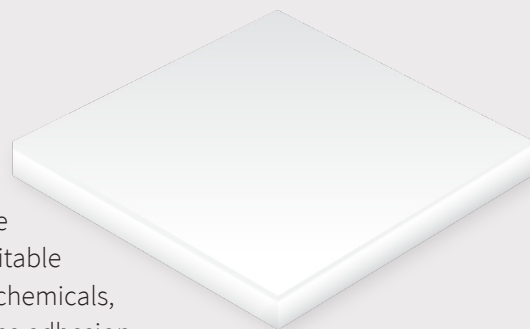




ETFE

Premium fluoropolymer with a balance of properties

ETFE (Ethylene Tetrafluoroethylene) is preferred for applications or environments where extraordinary chemical inertness, permeation resistance, low surface energy, and/or mechanical toughness is required. It is a “neat polymer” that does not require the use of additives to make thermoplastically processible. As a result, ETFE is consider a “wetted parts” suitable polymer for semicon end-use. Sheets made from ETFE are inert to 0-14pH chemicals, solvents, and oxidizers. ETFE has high gloss low surface energy, providing low surface adhesion.



	Property	ASTM Spec	Unit	ETFE
	Specific Gravity	D792	g/cc	1.73
Environment	Water Absorption	D570	%	<0.1
	Abrasion Resistance	Taber CS 17	mg/1000	—
	Oxygen Index	D2863	%	30-32
	Flammability	UL 94	—	V-0
		FM 4910	—	NO
	Coefficient of Friction	C1894	Static	—
		C1894	Dynamic	—
Mechanical	Tensile Strength (yield)	D3159	psi	7850
	Elongation (break)	D3159	%	365
	Flexural Modulus	D790 @ 23 C	psi	145,000
	Notched Izod Impact	D256 @ 23 C	ft-lb/in.	No Break
	Shore D Hardness	D2240	—	65
Thermal	Continuous Service Temperature	Maximum	°C	150
			°F	302
	Melting Point	D3418	°C	249-259
		D3418	°F	480 - 498
	Vicat Softening Point	D1525	°C	—
		D1525	°F	—
	Coefficient of Expansion	E831 TMA	in/in/°F (10 ⁻⁵)	7.4 x 10-5
	Deflection Temp (66psi)	D648	°C	105
		D648	°F	221
	Deflection Temp (264psi)	D648	°C	—
		D648	°F	—

ADVANTAGES

- Extreme chemical inertness
- Superior non-stick surface properties
- Exceptional permeation resistance
- Outstanding mechanical resilience (impact, elongation, abrasion)

PROVEN APPLICATIONS

- Process tanks, liners and components
- Fluid handling systems
- Highly corrosive chemical storage
- Tank & Reactor Vessels
- Pulp & Paper Production
- Alkaline Treatment Systems

STANDARD SIZES

Two-side Polished:

- 48”x96”; 48”x48”
- Gauge: 0.250” - 1.0”

Aramid Fabric Backed:

- 1.8mm, 2.3mm, 3.0mm, 4.0mm thickness
- Flat sheet 48” wide
- Rolls Standard 50’
- Partial rolls and custom-length rolls available

CUSTOM SIZES

- Contact inside sales

* Continuous Service Temperature based upon “non-chemical Dry Usage.” Table data reflects ASTM based average typical vendor data. Data meant as general guidelines only. Specific applications require additional testing by the buyer. All properties based on standard unbacked product tests only.

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