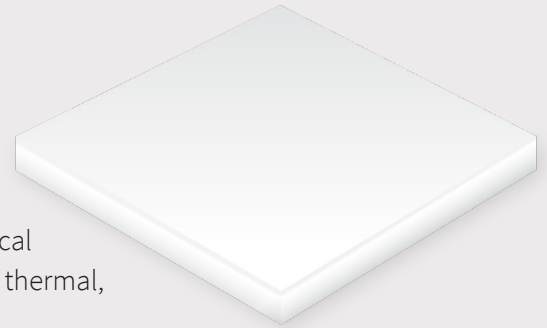




ETFE

Fluoropolymer with Greatly Enhanced Flex Life and Resistance to Environmental Stress

ETFE is a premium fluoropolymer that is mechanically tough and offers an excellent balance of properties and extremely low surface energy. ETFE is preferred for applications where other thermoplastics are lacking in mechanical toughness, or in environments where they are expected to endure unusual thermal, mechanical, and chemical extremes.



	Property	ASTM Spec	Unit	ETFE
	Specific Gravity	D 792	—	1.7
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)	D1708, D638	psi	6100
	Elongation (break)	D1708, D638	%	300
	Flexural Modulus	D790 @ 23 C	psi	145,000
	Notched Izod Impact	D256 @ 23 C	ft-lb/in.	No Break
	Shore D Hardness	D2240	—	67
Thermal	Continuous Service Temperature	Maximum	°C	155
			°F	311
	Melting Point	D3418	°C	255–280
			°F	491–536
	Vicat Softening Point	D1525	°C	—
			°F	—
	Coefficient of Expansion	E831 TMA	in/in/°F (10 ⁻⁵)	7.4 x 10 ⁻⁵
	Deflection Temp (66psi)	D648	°C	105
			°F	221
Deflection Temp (264psi)	D648	°C	—	
		°F	—	

ADVANTAGES

- Greatly enhanced flex life
- High resistance to environmental stress
- Useful properties are retained at cryogenic ranges
- Outstanding impact strength, cut-through, and abrasion resistance

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

- 48”x96”; 48”x120”; 60”x120”
- Gauge: 0.250” - 1.0”

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.

Disclaimer: The information contained herein though believed to be true in nature is meant as general guidelines only. As such High Functional Plastics Manufacturing, LLC (HFPM) makes NO EXPRESSED OR IMPLIED WARRANTIES with regard to specific end uses of these materials. Each purchaser is responsible for establishing and determining the specific material requirements for a given application. Any direct or consequential damages resulting from the improper use of these materials are strictly the responsibility of the buyer. HFPM limits its liability to the replacement value of any defective products. HFPM will not be responsible for or held liable for the improper use of our materials with regard to patent infringements, nor should any of our literature be construed as an offer of indemnity for patent infringement.