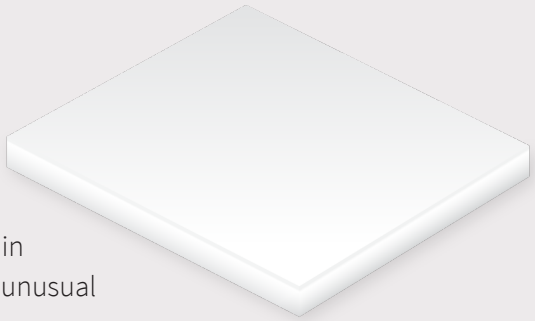
TEFZEL® ETFE | UL 94 V-0

Fluoropolymer with Greatly Enhanced Flex Life and Resistance to Environmental Stress



Tefzel® ETFE is a premium fluoropolymer that is mechanically tough and offers an excellent balance of properties and extremely low surface energy. Tefzel® 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	%	—
	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.	—
	Shore D Hardness	D2240	—	67
Thermal	Continuous Service Temperature	Maximum	°C	155
			°F	311
	Melting Point	D3418	°C	255–280
		D3418	°F	491–536
	Vicat Softening Point	D1525	°C	—
		D1525	°F	—
	Coefficient of Expansion	E831 TMA	in/in/°F (10^{-5})	—
	Deflection Temp (66psi) (66psi)	D648	°C	—
		D648	°F	—
	Deflection Temp (264psi) (264psi)	D648	°C	—
		D648	°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

- Chemical service items, such as lined valves and fittings, pump housings and impellers, column packings, and other abrasion-resistant linings
- High-temperature electrical components and insulation
- Fasteners, corrugated tubing, and duct work

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.*