UNCOMPROMISING SEALING SOLUTION FOR EXTREME ENVIRONMENTS

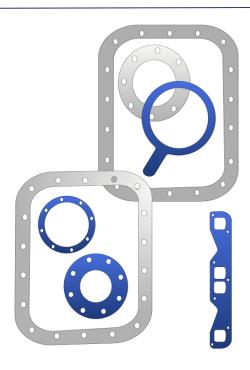
When system integrity is non-negotiable, you need gasket and sealing solutions engineered for unmatched reliability—even in the most extreme conditions.

TCl's high-performance fluoropolymer films provide exceptional sealing power, ensuring durability, chemical resistance, and performance in critical applications. Our portfolio includes:

- 100% PTFE CrossFilm™
- Cast PTFE Film
- FEP, PFA, and ETFE Films

Designed to withstand everything from cryogenic freezing to hightemperature exposure, TCI's fluoropolymer gaskets maintain chemical inertness and structural integrity, optimizing your equipment's efficiency and reducing costly downtime.

Available in thermo-bondable or adhesive-bondable options, our films are custom-slit to meet your exact specifications, delivering sealing solutions that last.



SUPERIOR CHEMICAL RESISTANCE:

Fluoropolymer gaskets are impervious to corrosive gases, vapors, acids, and solvents, making them the ideal sealing solution for harsh chemical environments. They provide long-term protection against corrosion, ensuring system reliability.

HIGH-TEMPERATURE STABILITY:

Engineered to perform in extreme conditions, fluoropolymers maintain their sealing integrity from cryogenic temperatures to high-heat environments, preventing degradation under thermal stress.

ELECTRICAL INSULATION:

With high insulation resistance and a low dielectric constant, fluoropolymer gaskets do not conduct electricity, making them ideal for applications requiring superior electrical insulation.

REDUCED CONTAMINATION RISK:

Fluoropolymers are inherently non-reactive and non-leaching, ensuring purity and contamination-free performance in industries where material integrity is critical.

UNMATCHED FLEXIBILITY:

Designed for optimal adaptability, fluoropolymer gaskets bend without breaking, enhancing sealing performance in applications that require flexible, long-lasting solutions.

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			CrossFilm [™]	PTFE Cast Film	
			100% PTFE	CF	
General Properties	Units	Test Method			
Specific Gravity		ASTM D792	2.15	2.15	
Area Yield	ft²/lb/mil		90	90	
Flammability		UL-94	V-0	V-0	
Water Absoption	%		<0.03	<0.01	
Mechanical Properties					
Tensile Strength	psi	ASTM D882	4,300	4,500	
Elongation at Break	%	ASTM D882	>400	400	
Folding Endurance	cycles	ISO 7854:1984	36,000	4,000	
Thermal Properties					
Continuous Use Temp	°F (°C)	UL-746 B	600 (316)	600 (316)	
Melt Point	°F (°C)	ASTM D3418	620 (327)	620 (327)	
Coeff. of Lin. Thermal Expansion	in/(in °F)	ASTM D696	5.5x10 ⁻⁵	5.5x10 ⁻⁵	
Product Offering					
Thickness	mils (µm)		2-60 (51 - 1524)	1 - 5 (25 - 127)	
Standard Colors			Black, Blue, Gray	Red, Blue, White	
Surface Treatments Available					
Thermo-bondable			Υ		
Adhesive Bondable			Y		

			TCI Melt Extruded Films		
			PFA	FEP	ETFE
General Properties	Units	Test Method			
Specific Gravity		ASTM D792	2.15	2.15	1.74
Area Yield	ft²/lb/mil		90	90	110
Flammability		UL-94	V-0		
Water Absoption	%		<0.01		<0.03
Mechanical Properties					
Tensile Strength	psi	ASTM D882	5,000	3,500	7,000
Elongation at Break	%	ASTM D882	500	300	300
Tensile Modulus	psi	ASTM D882	70,000		140,000
Folding Endurance (MIT)	cycles	ASTM D2176	100,000	10,000	>50,000
Thermal Properties					
Continuous Use Temp	°F (°C)	UL-746 B	500 (260)	400 (205)	330 (165)
Melt Point	°F (°C)	ASTM D3418	575 (320)	500 (260)	500 (260)
Coeff. of Lin. Thermal Expansion	in/(in °F)	ASTM D696	5.5x10 ⁻⁵		4x10 ⁻⁵
Product Offering					
Thickness	mils (µm)		0.5-10 (12.5-250)		
Standard Colors			Clear		
Surface Treatments Available					
Thermo-bondable			Υ		
Adhesive Bondable			Υ		

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