

# PTFE Sheet and Film



F510 General Purpose Gasketing

## F510 General Purpose Gasketing

**F510** is the ideal gasketing material designed for a broad range of industrial chemical applications. F510 not only maintains performance and integrity at higher pressures and temperatures, it decreases creep relaxation and cold flow unlike traditional PTFE gaskets. F510 is designed to withstand normal concentrations of acids, bases and solvents as well as be used with water, steam and fuels. F510 is highly abrasion resistant, unaffected by aging, and is available in large sheet sizes up to 60" x 120".

## F710 Chemical-Resistant Gasketing

**F710** is an excellent chemical-resistant gasketing material used in the oil refining, chemical processing, pulp and paper, power generation and hydrocarbon industries. F710 has superior performance characteristics over standard PTFE gaskets for sealability, compressibility, recovery and creep relaxation at higher temperatures and pressures. F710 can withstand powerful acids<sup>1</sup>, solvents and bases as well as be used in water and steam applications.

## F910 FDA-Compliant Gasketing

**F910** is the ideal high performance, high pressure gasketing material for use in food, beverage and pharmaceutical applications, as well as operations that require a clean gasket product. F910 is cleared under the United States Food and Drug Administration for use as a gasket in direct contact with food. As well as being FDA- and USDA-compliant, F910 has unique sealability, compressibility and recovery properties, and is resistant to a broad range of chemicals. Even under maximum loads and pressures, F910 minimizes cold flow and creep relaxation.

<sup>1</sup> Except hydrochloric

## Features/Benefits

### F510 General Purpose Gasketing

- Exceptional sealability
- Exceptional torque retention
- Resistant to extreme temperatures
- Asbestos-free

### F710 Chemical Resistant Gasketing

- Superior sealability and leakage control
- Exceptional torque retention
- Highly resistant to process chemicals
- Resistant to extreme temperatures
- Asbestos-free

### F910 FDA-Compliant Gasketing

- Superior sealability and leakage control
- Exceptional torque retention
- Resistant to extreme temperatures and process chemicals



F710 Chemical Resistant Gasketing



F910 FDA-Compliant Gasketing

## PTFE Sheet and Film — Typical Physical Properties\*

Property	ASTM Method	F510 General Purpose	F710 Chemical Resistant	F910 FDA-Compliant
Color	—	Fawn	Blue	White
Temperature	—	-350°F to +500°F (-212°C to +260°C)	-350°F to +500°F (-212°C to +260°C)	-350°F to +500°F (-212°C to +260°C)
Pressure Limit, psi (bar)	—	1,233 (85)	1,160 (80)	1,160 (80)
Sealability Leakage rate (ml/hr), 0.7 bar @ 2000psi (14 N/mm <sup>2</sup> ) using ASTM Fuel A	F-37A	0.18	0.13	0.09
Compressibility, (%) 2500 psi	F-36	10%	10%	6%
Recovery, (%) 2500 psi	F-36	28%	21%	23%
Creep Relaxation, (%) stress loss After 22 hrs. @ 100°C, @ 6000 psi initial compression force	F-38B	20%	12%	23%
Tensile, psi (N/mm <sup>2</sup> )	D-882	3,950 (27)	3,300 (21)	3,600 (25)
Elongation, (%)	D-882	300%	300%	300%

### Standard Sizes for F510, F710 and F910

English	Metric
48" x 48"	1220 mm x 1220 mm
60" x 60"	1520 mm x 1520 mm
60" x 90"	1520 mm x 2290 mm
60" x 120"	1520 mm x 3050 mm
1/32", 1/16", 1/8", 1/4"	0.8 mm, 1.6 mm, 3.2 mm, 6.4 mm

For non-standard sizes, please consult factory.

\*Represent typical performance properties and should not be used for specification purposes.  
Contact your Saint-Gobain Performance Plastics representative for appropriate values.



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