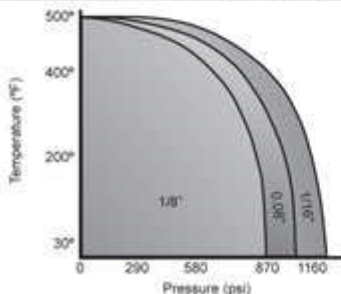


SIGMA 588 is a unique PTFE based material consisting of a biaxially oriented pure PTFE core with highly conformable surface layers of controlled compressibility. Sigma 588 is specifically designed for use in flanges where low bolt loads are available such as glass-lined, FRP, ceramic, plastic and flanges greatly distorted or damaged. Sigma 588 complies with FDA regulations. The data below represents typical values for a 1/16" thick sheet.

Service	Max T @ minimum thickness	500°F (260°C)	
	Max P	1235 psi (85 bar)	
	pH Range	0 - 14	
Physical Properties	Color	White	
	Density	70 lb/ft ³ (1.13 g/cc)	
	Sheet Thickness	1/16" - 1/4" (1.50 mm - 6.35 mm)	
	Sheet Size	60" x 60" (1.50 m x 1.50 m)	
Mechanical Properties (ASTM F152)	Cross Grain Tensile	1390 psi (9.6 MPa)	
	With Grain Tensile	1435 psi (9.9 MPa)	
Sealing Properties	ASTM F36	Compressibility	55%
		Recovery	24%
	ASTM F37A	Fuel A @ 10 psi & 1000 psi Gasket Stress	0.6 mL/hr.
	ASTM F38	Creep Relaxation	50%
	BS 7531	Nitrogen Gas Permeability	0.01 mL/min.
Design Information	Gasket Constants	m	1.4
		y	1595 psi (11.00 MPa)
	Recommended Surface Finish	125 - 250 µin (3.2 - 6.3 µm)	
	ASTM Callout	418130E21M4 †	

† some digits may be chosen differently

SIGMA 588 Thickness	up to 1/16"	0.08"	1/8"
Max. Temperature	500°F	500°F	500°F
Max. Pressure (psi)	1235	1015	870



Major Manufacturing Plants

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This Data Sheet relates to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company or its agents. The acquisition of additional information may necessitate reference to parts or all of the Data Sheet, and such information will be supplied on a separate purchase.

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