



TEALON TF1590

Structured PTFE Gasket Sheet

DESCRIPTION

Tealon TF1590 is a restructured PTFE Gasket Sheet manufactured by a unique process which provides a high fibrillation level to overcome the creep relaxation and cold flow problem associated with skived PTFE sheets. This style is produced with virgin PTFE resin filled with Silica.

APPLICATION / SERVICE

Tealon TF1590 is suitable for services with high pressures and temperature, especially in chemical processing and hydrocarbon plants in strong acids (except hydrofluoric), solvents, hydrocarbons, water, steam, and chlorine.

Tealon TF1590 is available in sheets of 59" x 59" (1500mm x 1500mm) with a thickness of 1/16" or 1/8".

SERVICE LIMITS

Type	Description	Value
Temperature	Minimum	-350°F (-210°C)
	Maximum	500°F (260°C)
Pressure	Maximum	1200 psig (83 bar)
Colour	fawn	
pH Range	0-14	
P x T max*		350,000 (12,000)**, 250,000 (8,600)***

* P x T = psig x °F (bar x °C) ** Based on 1.5mm sheet thickness *** Based on 3.0mm sheet thickness

TYPICAL PHYSICAL PROPERTIES

ASTM Test Method	Property	Value
ASTM F 36A	Compressibility @ 5000 psi	7-12
ASTM F 36A	Recovery @ 5000 (%)	40
ASTM 152	Tensile Strength (MPa)	14
ASTM D 792	Specific Gravity (g/cm ³)	2.10
ASTM F 38	Creep Relaxation (%)	18
ASTM F 37A	Sealability (ml/h @ .7 bar)	0.2
DIN 3535	Sealability (cm ³ /min)	< 0.015

*ASTM tests are based on .80mm sheet thickness and DIN test is based on 1.50mm sheet thickness

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Properties and application parameters shown throughout this datasheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice. This edition supersedes all previous issues.