

9400

Carbon Filler with Pure PTFE Resins
Filled PTFE Gasket Material
ASTM: F452111-A9B5E11K6M6



Durlon® 9400 is a high performance filled PTFE gasket material designed for use in piping and equipment, chemical, and other general industrial applications where resistance to highly aggressive chemicals (including hydrofluoric acid) is required. Durlon® 9400 can also be used as the gasket of choice for anhydrous hydrogen fluoride (AHF) in railroad tank cars and a good alternative for use in plants where barium sulfate filled PTFE may not be suitable.

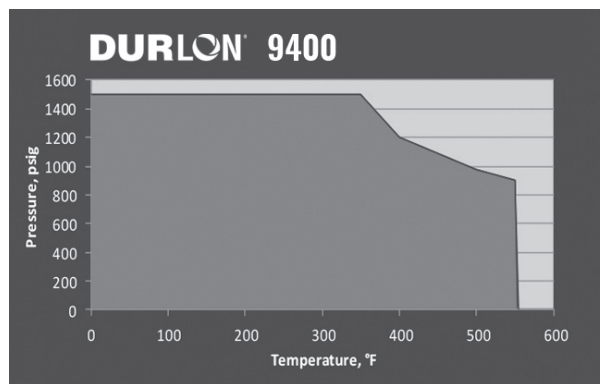
Hydrogen fluoride is a critical chemical used in many industries, including metal manufacturing and petroleum production. It's also highly reactive and corrosive. Durlon® 9400 carbon-filled PTFE gaskets are built to endure the harshest exposure to hydrogen fluoride. This gasket provides superior sealing properties, and is both highly durable and flexible.

INDUSTRY APPLICATIONS:

- Chemical Processing
- Food & Beverage
- Marine
- Mining
- OEM Services
- Oil & Gas
- Petrochemical
- Pharmaceutical
- Power Generation
- Pulp & Paper
- Rail Tank Car
- Refining
- Water & Waste Water
- General/Heavy Industry

Certifications

RoHS Reach Declaration	Compliant
HFPI - Materials of Construction Guideline	Approved Material



Note: ASTM properties are based on 1/16" sheet thickness, except ASTM F38 which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties, but should not be used to establish specifications limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

Warning: Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications listed are typical. No

applications should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious injury. Data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained within are subject to change without notice. This edition cancels and obsoletes all previous editions.

Physical Properties	
Color	Black
Filler System	Carbon
Temp.: Min Max Continuous, Max	-212°C (-350°F) 288°C (550°F) 260°C (500°F)
Pressure, max, bar (psi)	103 (1,500)
Density, g/cc (lbs/ft³)	2.1 (131)
Compressibility, %	5-12
Recovery, %	40
Creep Relaxation, %	30
Tensile Strength, MPa (psi)	14.5 (2,100)
Sealability ASTM 2378 (Nitrogen)	0.01 cc/min
Volume Resistivity, ohm-cm ASTM D257	61
Dielectric Breakdown ASTM D149, kV/mm (V/mil)	1 (33)

Gasket Factors	1/16"	1/8"
m	6.8	-
Y psi (MPa)	2,765 (19.1)	-
G _b psi (MPa)	1,701 (11.7)	1,412 (9.7)
a	0.173	0.164
G _s psi (MPa)	99 (0.68)	248 (1.7)