

9000

Inorganic Filler with Pure PTFE Resins
Filled PTFE Gasket Material
ASTM F104: F452111-A9B5E11K6M6



Durlon® 9000 is for use in general industrial applications where resistance to highly aggressive chemicals is required. In addition, the shape of the fillers does not allow wicking which can cause corrosion on flange surfaces.

INDUSTRY APPLICATIONS:

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

Physical Properties

Color	Blue
Filler System	Inorganic
Temp.: Min	-212°C (-350°F)
Max	271°C (520°F)
Continuous, Max	260°C (500°F)
Pressure, max, bar (psi)	103 (1,500)
Density, g/cc (lbs/ft ³)	2.2 (138)
Compressibility, %	8-16
Recovery, %	40
Creep Relaxation, %	30
Tensile Strength, MPa (psi)	13.8 (2,000)
Sealability: ASTM 2378 (Nitrogen)	0.01 cc/min
Leakage, mbar .1 (m .5) TA-Luft (VDI 2440) iBar (14.5 psi) @180°C (392°F)	7.55 x 10 ⁻⁶
Volume Resistivity, ASTM D257	1.0 x 10 ⁵ (ohm-cm)
Dielectric Breakdown ASTM D149, kV/mm (V/mil)	16 (406)

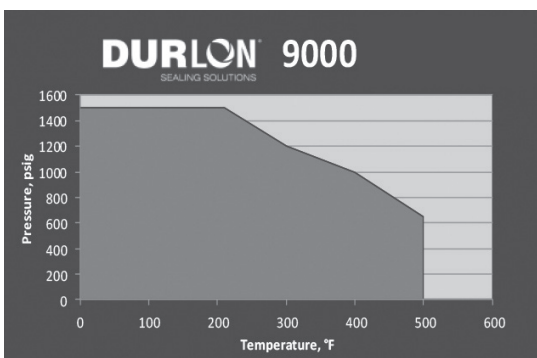
Gasket Factors	1/16"	1/8"
m	2.2	4.6
Y psi (MPa)	1,937 (13.4)	1,639 (11.3)
G _b psi (MPa)	639 (4.4)	495 (3.4)
a	0.220	0.262
G _s psi (MPa)	55 (0.379)	65 (0.448)

Warning: Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications stated 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.

Durlon is a registered trademark of Triangle Fluid Controls Ltd. and Gasket Resources Inc. • Triangle Fluid Controls Ltd., Belleville, ON, Canada • trianglefluid.com • info@trianglefluid.com • Toll-free: 866-537-1133
Gasket Resources Inc., Downingtown, PA, USA • gasketresources.com • tech@gasketresources.com • Toll-free: 866-707-7300 - REV. 2020/07

Certifications

API 6FA* , 3rd Edition Fire Test	Passed
WRAS	Approved Material
USP for Plastic Class VI	Met requirements - 121°C (250°F)
FDA	Conforms to required 21 CFR 177.1550
TA-luft (VDI Guideline 2440)	Approved Material
ABS-PDA & Pamphlet 95	Approved Material, chlorine ins., DNV-GL
(EC) 1935/2004 & EU (10/2011)	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.



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*6 inch Class 300. The test fixture was subjected to an external flame of 875°C (1607°F) average for 30 minutes. The measured leakage was 1.8 ml/min, where the max allowable limit is 1200ml/sec.