

# DURLON<sup>®</sup> 9000/9000N

Inorganic Filler with Pure PTFE Resins  
FILLED PTFE GASKET MATERIAL  
ASTM F104: F452111-A9B5E11K6M6

## APPLICATION:

Durlon<sup>®</sup> 9000 is designed for use in process piping and equipment in chemical, pulp and paper, food and beverage, and other general industrial applications where resistance to highly aggressive chemicals is required. Available in unpigmented white as style 9000N, both styles conform to FDA requirements.

Durlon<sup>®</sup> 9000 has been proven through the "Test Protocol" of the Chlorine Institute and is listed as an acceptable gasket material for dry chlorine service (both liquid and gaseous) in Pamphlet 95, Edition 2 of the Chlorine Institute. Additionally, Durlon<sup>®</sup> 9000 was independently tested and approved for caustics service by a major chemical/chlorine manufacturer. Unlike generic glass fiber filled PTFE, the shape of the fillers used in Durlon<sup>®</sup> 9000 do not allow wicking which can cause corrosion on flange surfaces.

Durlon<sup>®</sup> 9000 has been independently certified for service in oxygen at pressures up to 585 psi (40 bar) and temperatures up to 392°F (200°C), and for service in liquid oxygen. Gaskets for oxygen service can be supplied from distributor stocks, providing proper cleaning procedures for oxygen service are followed before installation.

## COMPOSITION:

Various shapes of inorganic fillers have been homogeneously blended with pure PTFE resins to give Durlon<sup>®</sup> 9000 its physical and mechanical properties. It is suitable for use in steel flanges and will not exhibit the cold flow problems associated with virgin PTFE or the hardness problems of some other filled PTFE products.

## TYPICAL PROPERTIES:

Colour	9000 - Blue 9000N - White
Filler System	Inorganic
Temperature Minimum Maximum Continuous, max	-350°F (-212°C) 520°F (271°C) 500°F (260°C)
Pressure, max, psi (bar)	1,500 (103)
Density, g/cc (lbs/ft <sup>3</sup> )	2.2 (138)
Compressibility, % ASTM F36	8-16
Recovery, % ASTM F36	40
Creep Relaxation, % ASTM F38	30
Tensile Strength across grain ASTM F152, psi (MPa)	2,000 (13.8)
Nitrogen Sealability, cc/min ASTM F2378	0.01

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 specification limits nor used alone as the basis of design. For applications above Class 300, consult your representative.

**AVAILABLE SIZES:**

Nominal Thickness		Sheet Sizes	
		Inches	mm
1/64"	0.5mm	60 x 60	1524 x 1524
1/32"	0.8mm	60 x 60	1524 x 1524
	1.0mm	60 x 60	1524 x 1524
1/16"	1.5mm	60 x 60	1524 x 1524
		60 x 120	1524 x 3048
	2.0mm	60 x 60	1524 x 1524
3/32"	2.5mm	60 x 60	1524 x 1524
1/8"	3.0mm	60 x 60	1524 x 1524
		60 x 120	1524 x 3048

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**Warning:** Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications in this book are typical. No application 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 personal injury. Data reported in this book 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 in this book are subject to change without notice. This edition cancels and obsoletes all previous editions.

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