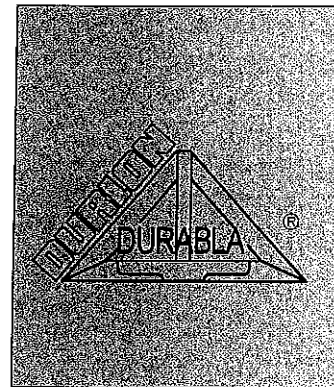


DURLON®



Style 9000 and 9000N Filled PTFE Gasket Material

Application

DURLON® 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 9000 and 9000N, (including branding) conform to FDA requirements.

DURLON® 9000 has been tested 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® 9000 has been tested and approved for Caustics service. Unlike generic glass fiber filled PTFE, the morphology of the fillers used in DURLON® 9000 do not allow wicking which can cause corrosion on flange faces.

DURLON® 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 morphologies of inorganic fillers have been homogeneously blended with pure PTFE resins to give DURLON® 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. It cuts easily and separates cleanly from flanges after use.

Typical Properties

Color	Style 9000 - Blue, branded
.....	Style 9000N - Unpigmented White, branded
Temperature Range:.....	-350 to 520°F (-212 to 271°C)
Pressure, Max:	1500 psig (103 bar)
Fluid Services:	Steam, Oils, Liquid & Gaseous Chlorine, Acids, Refrigerants, Alcohols, Caustics, Liquid & Gaseous Oxygen
Density	2.2 g/cm ³ (138 lbs/ft ³)
Tensile strength ASTM F152	2000 psi (13.8 MPa)
Compressibility ASTM F36	8 to 16%
Recovery ASTM F36	40%
Sealability ASTM F37, Nitrogen	0.02 ml/hr
Gas Permeability, DIN 3535	0.01 cc/min
Creep Relaxation ASTM F38	30%
Flexibility ASTM F147	5x

Note: ASTM properties 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 Durabla representative

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DURLON[®]

Style 9000/9000N Filled PTFE

Table of Standard Sizes

NOMINAL THICKNESS		SHEET SIZE*	ORDER CODE DURLON [®] 9000N	ORDER CODE DURLON [®] 9000N	APPROX. WEIGHT PER SHEET
1/64"	0.4mm	60" x 60"	TB05-060-060	TN05-060-060	4 (2)
1/32"	0.8mm	60" x 60"	TB08-060-060	TN08-060-060	9 (4)
1/16"	1.5mm	60" x 60"	TB15-060-060	TN15-060-060	18 (8)
3/32"	2.5mm	60" x 60"	TB25-060-060	TN25-060-060	27 (12)
1/8"	3.0mm	60" x 60"	TB30-060-060	TN30-060-060	36 (16)
3/16"	5.0mm	60" x 60"	TB50-060-060	TN50-060-060	54 (24)

1mm and 2mm thicknesses are available on request. Also 60" x 120" (1.5m x 3m) sheet sizes available on special order, other custom lengths available on request.

ASME Gasket Factors

M&Y

M Value

Y Value

1/16" THICKNESS

2.75

3,700 psi (25.5 MPa)

1/8" THICKNESS

2.00

1,600 psi (11.0 MPa)

Proposed ASME Gasket Factors

G_b

a

G_s

550 psi (3.79 MPa)

0.244

0.042 psi (0.003 MPa)

424 psi (2.92 MPa)

0.242

19 psi (0.19 MPa)

Additional Tests

Hot Blow-out Test (HOBT)

at 750 psig (51.7 Bar)

588°F (309°C)

ROTT CRUSH

at 40,000 psi (276 MPa)

Passed

Specification

ASTM F104 Line Call-out: F452111-A9B6E11K6M6

DURABLA MANUFACTURING COMPANY

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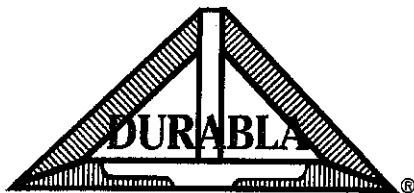
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