DURLON® 8400

Phenolic Fiber with NBR Rubber Binder
COMPRESSED SHEET GASKET MATERIAL
ASTM F104: F712120-A9B4E22K5M5

APPLICATION:
With an extremely wide pH application range (2 to 13 at room temperature), Durlon® 8400 can be used in process piping and equipment in chemical, pulp and paper, and other general industrial applications. A unique high-performance compressed sheet, Durlon® 8400 is an excellent gasket material for use in steam, mild caustics and acids in Class 150 and 300 services.

COMPOSITION:
Durlon® 8400 contains high temperature-resistant Phenolic fibers and minerals bonded with high-grade nitrile (NBR) rubber. Handling and cutting characteristics are greatly improved over carbon and glass fiber products.

ANTI-STICK PROPERTIES:
Much effort has gone into improving the anti-stick release agents of all compressed Durlon® products. All Durlon® compressed gasket materials have passed the MIL-G-24696B Navy Adhesion Test (366°F/48 hrs).

TYPICAL PROPERTIES:

Colour	Gold
Fiber System	Phenolic
Binder	NBR
Temperature Minimum Maximum Continuous, max	 -100°F (-73°C) 800°F (427°C) 554°F (290°C)
Pressure, max, psi (bar)	1,500 (103)
Density, g/cc (lbs/ft^3)	1.7 (106)
Compressibility, % ASTM F36	8-16
Recovery, % ASTM F36	50
Creep Relaxation, % ASTM F38	25
Tensile Strength across grain ASTM F152, psi (MPa)	1,800 (12.4)
Fluid Resistance, ASTM F146 IRM 903 Oil 5 hours at 300°F (149°C) Thickness Increase, % Weight Increase, % ASTM Fuel B 5 hours at 70°F (21°C) Thickness Increase, % Weight Increase, %	 0-15 15 0-10 15
Nitrogen Sealability, cc/min ASTM F2378	0.03
Flexibility, ASTM F147	8x

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 63 60 x 126	1524 x 1600 1524 x 3200
1/32”	0.8mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1524 x 3200 3048 x 3200
1.0mm		60 x 63 60 x 126 120 x 126	1524 x 1600 1524 x 3200 3048 x 3200
1/16”	1.5mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1524 x 3200 3048 x 3200
2.0mm		60 x 63 60 x 126 120 x 126	1524 x 1600 1524 x 3200 3048 x 3200
3/32”	2.5mm	60 x 63 60 x 126 60 x 126	1524 x 1600 1524 x 3200 3048 x 3200
1/8”	3.0mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1524 x 3200 3048 x 3200

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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