

# DURLON<sup>®</sup> 8300

Carbon Fiber with NBR Rubber Binder  
COMPRESSED SHEET GASKET MATERIAL  
ASTM F104: F712120-A9B3E22K5M5

## APPLICATION:

A premium grade compressed sheet gasket material that is excellent in steam and hydrocarbon services in the refining, petrochemical, and power generation industries. Other applications include oil, water, mild alkalis, mild acids, and solvents.

## COMPOSITION:

Durlon<sup>®</sup> 8300 contains high-strength carbon fibers bonded with high-grade nitrile (NBR) rubber.

## ANTI-STICK PROPERTIES:

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

## TYPICAL PROPERTIES:

Colour	Black
Fiber System	Carbon
Binder	NBR
Temperature Minimum Maximum Continuous, max	-100°F (-73°C) 800°F (427°C) 600°F (315°C)
Pressure, max, psi (bar)	1,500 (103)
Density, g/cc (lbs/ft <sup>3</sup> )	1.6 (100)
Compressibility, % ASTM F36	8-16
Recovery, % ASTM F36	50
Creep Relaxation, % ASTM F38	18
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, %	0-10 10 0-10 12
Nitrogen Sealability, cc/min ASTM F2378	0.05
Flexibility, ASTM F147	10x

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