

## 8300

Carbon Fiber with NBR Rubber Binder  
Compressed Non-Asbestos Gasket Material  
ASTM F104: F712120-A9B3E22K5L311M5



Durlon® 8300 is a premium grade compressed sheet gasket material that is excellent in steam and hydrocarbon services for the refining, petrochemical and power generation industries and designed to handle the extreme pressure and temperature applications that include oil, water, mild alkalis, mild acids and solvents.

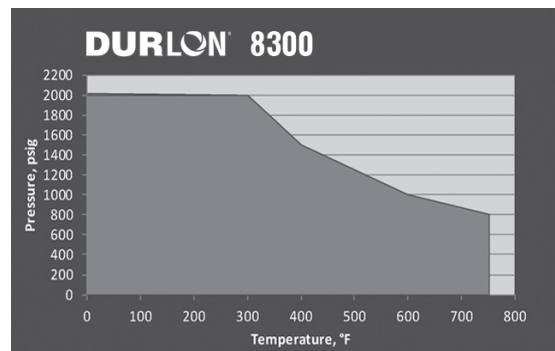
### INDUSTRY APPLICATIONS:

- Chemical Processing
- General/Heavy Industry
- Mining
- OEM Services
- Oil & Gas
- Petrochemical
- Power Generation
- Refining

Gasket Factors	1/16"	1/8"
m	3.7	3.0
Y psi (MPa)	3,515 (24.2)	4,014 (27.7)
G <sub>b</sub> psi (MPa)	512 (3.5)	460 (3.2)
a	0.355	0.313
G <sub>s</sub> psi (MPa)	13 (0.09)	0.427 (.003)

### Certifications

California Proposition 65	Compliant
RoHS Reach Declaration	Compliant



**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.

Physical Properties	
Color	Black
Fiber System	Carbon
Binder	NBR
Temperature: Min Max Continuous, Max	-73°C (-100°F) 482°C (900°F) 343°C (650°F)
Pressure, max, bar (psi)	139 (2,000)
Density, g/cc (lbs/ft³)	1.6 (100)
Compressibility, %	8-16
Recovery, %	50
Creep Relaxation, %	18
Tensile Strength, MPa (psi)	12.4 (1,800)
Sealability ASTM 2378 (Nitrogen)	0.05 cc/min
Fluid Resistance, ASTM F146 IRM 903 Oil 5hrs at 300°F Thickness Increase, % Weight Increase, % ASTM Fuel B 5hrs at 70°F Thickness Increase, % Weight Increase, %	0-10 10 0-10 12
Flexibility, ASTM F147	10x
Volume Resistivity, ASTM D257	5.0 x 10 <sup>9</sup> (ohm-cm)
Dielectric Breakdown ASTM D149, kV/mm (V/mil)	0.04 (1)

**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.

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