DURLON® 8300
SEALING SOLUTIONS

Carbon Fibre with NBR Rubber Binder
Compressed Asbestos Free Gasket Material
ASTM F104: F712120-A9B3E22K5L311M5

Colour	Black
Fibre 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/ft^3)	1.6 (100)
Compressibility, % ASTM F36	8-16
Recovery, % ASTM F36	50
Creep Relaxation, % ASTM F38	18
Tensile Strength, across grain ASTM F152, MPa (psi)	12.4 (1,800)
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
Sealability ASTM F37 (Fuel A), ml/hr ASTM F37 (Nitrogen), ml/hr ASTM F2378 (Nitrogen), cc/min	 0.03 0.5 0.05
Volume Resistivity, ohm-cm ASTM D257	5.0 x 10^9
Dielectric Breakdown ASTM D149, kV/mm (V/mil)	0.04 (1)
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 specifications limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

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.

Gasket Factors

	1/16"	1/8"
m	3.7	3.0
Y, psi (MPa)	3,515 (24.2)	4,014 (27.7)
G_b, psi (MPa)	512 (2.5)	1,716 (11.8)
a	0.355	0.209
G_s, psi (MPa	13 (0.09)	70 (0.48)

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/48hrs).

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