

DURLON[®] 8700

Aramid/Inorganic Fiber with CR Rubber Binder COMPRESSED SHEET GASKET MATERIAL ASTM F104: F712330-A9B5E45K5L153M5

APPLICATION:

DURLON[®] 8700 is a high performance gasket material for use in processes requiring a neoprene (CR) bonded sheet such as refrigeration services. This product has excellent resistance to ozone, oils, non-aromatic solvents and many refrigerants.

COMPOSITION:

DURLON[®] 8700 contains high-strength aramid and inorganic fibers bonded with high-grade neoprene rubber.

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:

Color:	Blue, branded
Fiber:	Aramid/Inorganic
Binder:	Neoprene (CR)
Fluid Services:	Saturated Steam, Oils, Water, Dilute Acids & Alkalis, Refrigerants
Density:	1.7 g/cm ³ (106 lbs./ft ³)
Tensile Strength, ASTM F152:	1,500 psi (10.3 MPa)
Compressibility, ASTM F36:	8 to 16%
Recovery ASTM F36:	45%
Temperature Range:	-100 to 700°F (-73 to 371°C)
Continuous, max:	548°F (287°C)
Pressure, max:	1500 psig (103 bar)
Fluid Resistance - ASTM F146 IRM 903 oil, 5 h/300°F (149°C) Thickness Increase:	10 to 15%
Weight Increase:	20% max
ASTM Fuel B 5 h/70°F (21°C) Thickness Increase:	5 to 20%
Weight Increase:	20% max
Sealability ASTM F37 (Fuel A):	0.03 mL/hr
ASTM F37 (Nitrogen):	0.7 mL/hr
Volume Resistivity, ASTM D257:	4.2 x 10 ¹³ ohm-cm
Dielectric Breakdown, ASTM D149:	11.7 kV/mm (297 V/mil)
DIN 3535 Gas Permeability:	0.05 cc/min
Creep Relaxation ASTM F38:	20%
Flexibility, ASTM F147:	8x

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 representative.

M&Y AND PROPOSED ASTM GASKET CONSTANTS:

THICKNESS	1/16"	1/8"
M Y psi (MPa)	2.7 2359 (16.27)	4.2 2931 (20.21)
Gasket Constants G_b psi (MPa) a G_s psi (MPa)	650 (4.5) 0.33 200 (1.4)	400 (208) 0.35 20 (0.1)

*Gasket Constants based on proposed ASTM Draft 10.1

AVAILABLE SHEET SIZES:

Nominal Thickness	Sheet Sizes		Order Code	Sheets Per Roll	Approx. Weight/Sheet lbs (kg)
	inches	mm			
1/32" 0.8mm	60 x 63	1524 x 1600	BE08-060-063	20	7 (3.2)
	60 x 126	1254 x 3200	BE08-060-126	10	14 (6.4)
1/16" 1.5mm	60 x 63	1524 x 1600	BE15-060-063	10	14 (6.4)
	60 x 126	1254 x 3200	BE15-060-126	5	28 (12.7)
	120 x 126	3048 x 3200	BE15-120-126	2	55 (25.0)
1/8" 3.0mm	60 x 63	1524 x 1600	BE30-060-063	8	28 (12.7)
	60 x 126	1254 x 3200	BE30-060-126	4	55 (25.0)
	120 x 126	3048 x 3200	BE30-120-126	1	110 (50.0)

Note: Please inquire about sizes and thicknesses not listed.

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Warning: Durlon gasket materials should never be recommended when both the temperature and the pressure are at the maximums listed. Properties and applications shown 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. The 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. The information and specifications contained in this website are subject to change without notice. This revision cancels and obsoletes all previous editions.

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