

Please check with All Custom Gasket for current lead times and availability

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DURLON[®] 8400

Phenolic Fiber with NBR Rubber Binder COMPRESSED SHEET GASKET MATERIAL ASTM F104: F712120-A9B4E22K5L911M5

APPLICATION:

With an extremely wide pH application range, 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 service.

COMPOSITION:

DURLON[®] 8400 contains high temperature phenolic fibers and minerals combined with high-grade Nitrile NBR rubber. It exibits higher temperature limits than aramid based materials and the 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).

pH RANGE:

DURLON® 8400 has a pH application range of 2 to 13 at room temperature, the widest any compressed sheet gasket material produced today. This makes DURLON® 8400 especially suitable in pulp and paper, and chemical plant applications.

TYPICAL PROPERTIES:

Gold, branded
Phenolic
Nitrile (NBR)
Steam, Oils, Solvents, Caustics, Fuels, Dilute Acids & Alkalis, Hydrocarbons, Refrigerants
1.7 g/cm ³ (106 lbs./ft ³)
1,800 psi (12.4 MPa)
8 to 16%
50%
-100 to 800°F (-73 to 427°C) 554°F (290°C)
1500 psig (103 bar)
0 to 15% 15% 0 to 10% 15%
3.1 x 10 ¹³ ohm-cm
14.6 kV/mm (371 V/mil)
0.03 cc/min
25%
8x

M&Y AND PROPOSED ASTM GASKET CONSTANTS:

THICKNESS	1/16"	1/8"			
<i>M</i> Y psi (MPa)	3.7 3515 (24.24)	3.0 4014 (27.68)			
Gasket Constants Gb psi (MPa) a Gs psi (MPa)	2000 (13.8) 0.194 340 psi (2.3)				
*Gasket Constants based on proposed ASTM Draft 10.1					

AVAILABLE SHEET SIZES:

Nominal Thickness	Sheet inches	Sizes mm	Sheets Per Roll	Approx. Weight/Sheet lbs (kg)
1/64" 0.4mm	60 x 63 60 x 126	1524 x 1600 1254 x 3200	20 10	3 (1.4) 7 (3.2)
1/32" 0.8mm	60 x 63 60 x 126	1524 x 1600 1254 x 3200	20 10	7 (3.2) 14 (6.4)
1.0mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1254 x 3200 3048 x 3200	20 10 5	9 (4.1) 19 (8.6) 37 (16.8)
1/16" 1.5mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1254 x 3200 3048 x 3200	10 5 2	14 (6.4) 28 (12.7) 55 (25.0)
2.0mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1254 x 3200 3048 x 3200	10 5 2	18 (8.2) 38 (17.2) 74 (33.6)
3/32" 2.5mm	60 x 63 60 x 126	1524 x 1600 1254 x 3200	8 4	20 (9.07) 39 (17.69)
1/8" 3.0mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1254 x 3200 3048 x 3200	8 4 1	28 (12.7) 55 (25.0) 110 (50.0)
3/16" 5.0mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1254 x 3200 3048 x 3200	4 2 1	42 (19.1) 83 (37.6) 165 (75.8)

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.

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Disclaimer: The above values are typical properties and are provided for information only. They should not be used to set specification requirements. It is up to the end user to determine whether the material is suitable for the intended application.