SPECIFICATION SHEET September 2006



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

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.

M&Y AND PROPOSED ASTM GASKET CONSTANTS:

THICKNESS	1/16"	1/8"			
M 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	Order Code	Sheets Per Roll	Approx. Weight/Sheet Ibs (kg)
1/64" 0.4mm	60 x 63	1524 x 1600	GD05-060-063	20	3 (1.4)
	60 x 126	1254 x 3200	GD05-060-126	10	7 (3.2)
1/32" 0.8mm	60 x 63	1524 x 1600	GD08-060-063	20	7 (3.2)
	60 x 126	1254 x 3200	GD08-060-126	10	14 (6.4)
1.0mm	60 x 63	1524 x 1600	GD10-060-063	20	9 (4.1)
	60 x 126	1254 x 3200	GD10-060-126	10	19 (8.6)
	120 x 126	3048 x 3200	GD10-120-126	5	37 (16.8)
1/16" 1.5mm	60 x 63	1524 x 1600	GD15-060-063	10	14 (6.4)
	60 x 126	1254 x 3200	GD15-060-126	5	28 (12.7)
	120 x 126	3048 x 3200	GD15-120-126	2	55 (25.0)
2.0mm	60 x 63	1524 x 1600	GD20-060-063	10	18 (8.2)
	60 x 126	1254 x 3200	GD20-060-126	5	38 (17.2)
	120 x 126	3048 x 3200	GD20-120-126	2	74 (33.6)
3/32" 2.5mm	60 x 63	1524 x 1600	GD25-060-063	8	20 (9.07)
	60 x 126	1254 x 3200	GD25-060-126	4	39 (17.69)
1/8" 3.0mm	60 x 63	1524 x 1600	GD30-060-063	8	28 (12.7)
	60 x 126	1254 x 3200	GD30-060-126	4	55 (25.0)
	120 x 126	3048 x 3200	GD30-120-126	1	110 (50.0)
3/16" 5.0mm	60 x 63	1524 x 1600	GD50-060-063	4	42 (19.1)
	60 x 126	1254 x 3200	GD50-060-126	2	83 (37.6)
	120 x 126	3048 x 3200	GD50-120-126	1	165 (75.8)

Note: Please inquire about sizes and thicknesses not listed.

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.

GASKET RESOURCES INC.

CONTACT INFORMATION: Phone: Fax: E-mail

USA (866) 707-7300 (610) 363-5881 <u>tech@durlon.com</u>

INTERNATIONAL (613) 966-1442 (613) 966-1572 <u>intl@durlon.com</u>

®Registered trademark Durabla Canada Ltd, ©2002

©2002-2006, Gasket Resources Inc., All Rights Reserved