SPECIFICATION
SHEET
September 2006

DURLON® 8600

Aramid/Inorganic Fiber with SBR Rubber Binder
COMPRESSED SHEET GASKET MATERIAL
ASTM F104: F712440-A9B3E24K5L152M5

APPLICATION:
A quality compressed sheet gasket material for use in process industries including pulp and paper, power, petrochemical as well as general industry where a "white" gasket material is often required such as food and beverage, pharmaceutical and plastics. For services such as water, steam, air inert gases, alcohols, dilute acids and alkalis ammonia and many other liquids and gases. Exhibits good compressibility and recovery, sealability, flexibility and cutting characteristics. A release agent on both sides ensures good anti-stick properties.

COMPOSITION:
DURLON® 8600 contains high-strength aramid and inorganic fibers bonded with high-grade SBR 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:	White, branded
Fiber:	Aramid/Inorganic
Binder:	SBR
Fluid Services:	Saturated Steam, Water, Inert Gases,Alcohols, Dilute Acids & Alkalis, Ammonia
Density:	1.7 g/cm^3 (106 lbs./ft^3)
Tensile Strength, ASTM F152:	1,800 psi (12.4 MPa)
Compressibility, ASTM F36:	8 to 16%
Recovery ASTM F36:	45%
Temperature Range: Continuous, max:	 -100 to 700°F (-73 to 371°C) 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: Weight Increase: ASTM Fuel B 5 h/70°F (21°C) Thickness Increase: Weight Increase:	 15 to 30% 30% 5 to 20% 30%
Sealability ASTM F37 (Fuel A): ASTM F37 (Nitrogen):	 0.03 mL/hr 0.5 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	2.7	4.2
Y psi (MPa)	2359 (16.27)	2931 (20.21)
Gasket Constants		
Gb psi (MPa)	650 (4.5)	400 (208)
a	0.33	0.35
Gs psi (MPa)	200 (1.4)	20 (0.1)
*Gasket Constants based on proposed ASTM Draft 10.1		

AVAILABLE SHEET SIZES:

Nominal Thickness	Sheet Sizes inches	Sheet Sizes mm	Order Code	Sheets Per Roll	Approx. Weight/Sheet lbs (kg)
1/64" 0.4mm	60 x 63 60 x 126	1524 x 1600 1254 x 3200	GY05-060-063 GY05-060-126	20 10	3 (1.4) 7 (3.2)
1/32" 0.8mm	60 x 63 60 x 126	1524 x 1600 1254 x 3200	GY08-060-063 GY08-060-126	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	GY10-060-063 GY10-060-126 GY10-120-126	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	GY15-060-063 GY15-060-126 GY15-120-126	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	GY20-060-063 GY20-060-126 GY20-120-126	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	GY25-060-063 GY25-060-126	8 4	22 (10.0) 44 (20.0)
1/8" 3.0mm	60 x 63 60 x 126 120 x 126	1524 x 1600 1254 x 3200 3048 x 3200	GY30-060-063 GY30-060-126 GY30-120-126	8 4 1	28 (12.7) 55 (25.0) 110 (50.0)

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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