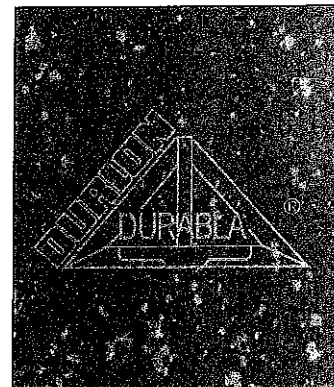


DURLON®



Style 8500 Non-Asbestos Compressed Gasket Material

Application

A high-performance NON-ASBESTOS compressed gasket material for use in process industries including pulp and paper, food and beverage, pharmaceutical, hydrocarbon, chemical, and refinery, as well as general industry. Developed as an alternative to compressed asbestos gasket material, DURLON® 8500 is suitable for oils, water, steam, new generation refrigerants, dilute acids and alkalis, and many other liquids and gases. Exhibits good compressibility and recovery, excellent sealability, flexibility and cutting characteristics. A release agent on both sides ensures good anti-stick properties.

Composition

DURLON® 8500 contains high-strength aramid and inorganic fibers bonded with high-grade Nitrile (NBR) rubber.

Fire Testing

DURLON® 8500 has successfully passed a modified version of the API 607 fire test. The duration of the direct flame portion of the test is 30 minutes and the flange temperature must reach 1200°F in the first 15 minutes. The internal pressure is held at a constant 30 psig. After the flame is shut off, the fixture is immediately water quenched with an overhead water blast. Leakage must not exceed 100 ml/min after a 6 minute cool down to successfully pass the test. Subsequent leakage testing is also performed.

Typical Properties

Based on 1/16" thickness

Color	Green, branded
Density	1.7 g/cm ³ (106 lbs/ft ³)
Tensile Strength ASTM F152	2,000 psi (13.8 MPa)
Compressibility @ 5000 psi ASTM F36	8 to 16%
Recovery ASTM F36	50%
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 5h/300°F (149°C)	
Thickness Increase	0 to 15%
Weight Increase	15%
ASTM Fuel B 5h/70°F (21°C)	
Thickness Increase	0 to 10%
Weight Increase	10%
Sealability	
ASTM F37 (Fuel A)	0.01 ml/hr
ASTM F37 (Nitrogen)	0.4 ml/hr
DIN 3535 Gas Permeability	0.03 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 Durabla representative.

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DURLON®

Style 8500 NON-ASBESTOS

Table of Standard Sizes

NOMINAL THICKNESS		SHEET SIZE*	ORDER CODE	SHEETS PER ROLL	APPROX. LBS. PER SHEET
1/64"	0.4 mm	60" x 63"	DG05-060-063	20	3
		60" x 126"	DG05-060-126	10	7
1/32"	0.80 mm	60" x 63"	DG08-060-063	20	7
		40" x 126"	DG08-040-126	10	9
		60" x 126"	DG08-060-126	10	14
1.0 mm	1.0 mm	60" x 63"	DG10-060-063	20	9
		40" x 126"	DG10-040-126	10	12
		60" x 126"	DG10-060-126	10	19
		120" x 126"	DG10-120-126	5	37
1/16"	1.5 mm	60" x 63"	DG15-060-063	10	14
		40" x 126"	DG15-040-126	5	18
		60" x 126"	DG15-060-126	5	28
		120" x 126"	DG15-120-126	2	55
2.0 mm	2.0 mm	60" x 63"	DG20-060-063	10	18
		40" x 126"	DG20-040-126	5	24
		60" x 126"	DG20-060-126	5	38
		120" x 126"	DG20-120-126	2	74
3/32"	2.5 mm	60" x 63"	DG25-060-063	8	22
		60" x 126"	DG25-060-126	4	44
1/8"	3.0 mm	60" x 63"	DG30-060-063	8	28
		40" x 126"	DG30-040-126	4	37
		60" x 126"	DG30-060-126	4	55
		120" x 126"	DG30-120-126	1	110

Note: Available in a 40" x 63" sheet size on request. 4mm and 5mm (3/16") thickness also available on request.

ASME Gasket Factors

M&Y

M Value

Y Value

1/16" THICKNESS

2.75

3,700 psi (25.5 MPa)

1/8" THICKNESS

2.00

1,600 psi (11.0 MPa)

Proposed ASME Gasket Factors

G_b

a

G_s

650 psi (4.5 MPa)

0.33

200 psi (1.4 MPa)

400 psi (2.8 MPa)

0.35

20 psi (0.1 MPa)

Specification

ASTM F104

F712120-A9B3E12K5M6

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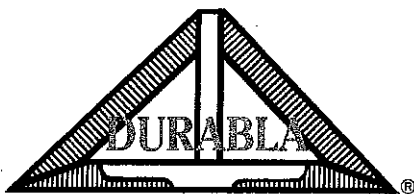
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