

DURLON® 7910 Compressed Non-Asbestos Gasket Material



Certified to NSF/ANSI 61

Application:

DURLON® 7910 is a good quality general service gasket for applications where an NSF/ANSI 61 Certified gasket material is required. It is suitable for potable water, steam, oil, water, mild alkalis and acids, hydrocarbons and solvents; and for applications in the water treatment and reclamation, wastewater and plumbing industries.

Composition:

DURLON® 7910 is a compressed fiber sheet gasket material that was specially developed to meet the requirement of NSF/ANSI 61 for potable water applications. It contains high strength mineral fibers bonded with nitrile (NBR) synthetic rubber.

Typical Properties:

Color:	White, branded
Density:	106 lbs/ft ³ (1.7 g/cm ³)
Tensile strength across grain, ASTM F152:	1,600 psi (11 MPa)
Compressibility @ 5000 psi, ASTM F36:	9 to 19%
Recovery ASTM F36:	40%
Creep Relaxation, ASTM F38:	25%
Temperature,	
Short Term Maximum:	700°F (371°C)
Continuous Operating:	-100 to 500°F (-73 to 260°C)
Pressure, max:	1200 psig (83 bar) (at ambient temperature)
Fluid Resistance – ASTM F146	
IRM 903 Oil 5h/300°F (149°C)	
Thickness Increase:	0 to 15%
Weight Increase:	15% Maximum
ASTM Fuel B 5h/70°F (21°C)	
Thickness Increase:	0 to 10%
Weight Increase:	12% Maximum
Sealability	
DIN 3535 Gas Permeability:	0.05 cc/min
Dielectric Breakdown, ASTM D149, 1/16" :	11.0 kv/mm
Flexibility, ASTM F147:	10x
ASTM F104:	F712120-A9B3E22K5L151M5

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.

DURLON® 7910 Marketing Bulletin
Certification:

NSF/ANSI 61 Potable Water Contact Temperature: C HOT

M&Y And Proposed Gasket Constants:

THICKNESS	1/16"	1/8"
M	1.5	1.5
Y psi (MPa)	2416 (16.7)	3576 (24.7)
Gasket Constants		
Gb psi (MPa)	502 (3.46)	736 (5.1)
a	0.289	0.237
Gs psi (MPa)	0.001 (0)	9.1 (0.1)

Available Sheet Sizes:

Nominal Thickness	Sheet Sizes inches	Order Code DURLON® 7910	Sheets Per Roll	Approx. Wt/Sheet lbs
1/64" 0.5mm	60 x 63	NS05-060-063	20	4
	60 x 126	NS05-060-126	10	8
1/32" 0.8mm	60 x 63	NS08-060-063	20	7
	60 x 126	NS08-060-126	10	14
1/16" 1.5mm	60 x 63	NS15-060-063	10	15
	60 x 126	NS15-060-126	5	29
	120 x 126	NS15-120-126	2	58
1/8" 3mm	60 x 63	NS30-060-063	8	28
	60 x 126	NS30-060-126	4	56
	120 x 126	NS30-120-126	1	112

Standard Testing

Tests are standard ASTM procedures. There are variations that exist between laboratories and in results which can mislead. Specific information on any test results and the procedure used is available upon request.

Testing vs Operating Conditions

All test methods provide a standardized procedure to measure specific effects under controlled conditions. The results of any test are not intended to have any direct correlation with service conditions.