

# 8700 Aramid-Inorganic/CR Rubber Binder

COMPRESSED SHEET GASKET MATERIAL § ASTM F104 F712330-A9B5E45K5L153M5

## application:

DURLON®8700 is a high performance gasket material for use in processes requiring a chloroprene (CR) bonded sheet such as refrigeration services. This product has excellent resistance to ozone, oils, non-aromatic solvents and many refrigerants.

## composition:

DURLON® 8700 contains high-strength aramid and inorganic fibers bonded with high-grade chloroprene (CR) 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:	Blue, branded
Fiber:	Aramid/Inorganic
Binder:	Chloroprene (CR)
Fluid Services:	Saturated Steam, Oils, Water, Dilute Acids & Alkalis, Refrigerants
Density:	1.7 g/cm <sup>3</sup> (106 lbs./ft <sup>3</sup> )
Tensile Strength, ASTM F152:	1,500 psi (10.3 MPa)
Compressibility, ASTM F36:	8 to 16%
Recovery ASTM F36:	45%
Temperature Range:	-100 to 700°F (-73 to 371°C)
Continuous, max:	548°F (287°C)
Pressure, max (at ambient temperature):	1500 psig (103 bar)
Fluid Resistance - ASTM F146 IRM 903 oil, 5 h/300°F (149°C) Thickness Increase:	10 to 15%
Weight Increase:	20%
ASTM Fuel B 5 h/70°F (21°C) Thickness Increase:	5 to 20%
Weight Increase:	20%
Sealability ASTM F37 (Fuel A):	0.03 mL/hr
ASTM F37 (Nitrogen):	0.7 mL/hr
Volume Resistivity, ASTM D257:	4.2 x 10 <sup>13</sup> ohm-cm
Dielectric Breakdown, ASTM D149:	11.7 kV/mm (297 V/mil)
Nitrogen Permeability ASTM F2378	0.05 cc/min
Creep Relaxation ASTM F38:	20%
Flexibility, ASTM F147:	10x
ASTM F104 Line Call-Out:	F712330-A9B5E45K5L153M5

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	3.1	5.0
Y psi (MPa)	3127 (21.6)	4000 ( )
Gasket Constants		
Gb psi (MPa)	546 (3.8)	758 (5.2)
a	0.455	0.34
Gs psi (MPa)	12 (0.1)	0.01 (0)
*Gasket Constants based on proposed ASTM Draft 10.1		

## available sheet sizes:

Nominal Thickness	Sheet Sizes		Order Code	Sheets Per Roll	Approx. Weight/Sheet lbs (kg)
	inches	mm			
1/32" 0.8mm	60 x 63	1524 x 1600	BE08-060-063	20	7 (3.2)
	60 x 126	1524 x 3200	BE08-060-126	10	14 (6.4)
1/16" 1.5mm	60 x 63	1524 x 1600	BE15-060-063	10	14 (6.4)
	60 x 126	1524 x 3200	BE15-060-126	5	28 (12.7)
	120 x 126	3048 x 3200	BE15-120-126	2	55 (25.0)
1/8" 3.0mm	60 x 63	1524 x 1600	BE30-060-063	8	28 (12.7)
	60 x 126	1524 x 3200	BE30-060-126	4	55 (25.0)
	120 x 126	3048 x 3200	BE30-120-126	1	110 (50.0)

## Standard Testing:

Tests are standard ASTM procedures. 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.

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