7900/7925/7950 Aramid-Inorganic/NBR Rubber Binder

COMPRESSED SHEET GASKET MATERIAL § ASTM F104: F712120-A9B3E22K5L151M5

application:

An economy grade general service compressed sheet with NBR rubber binder for mild service in piping and equipment and OEM applications in steam, hydrocarbons and refrigerants. An economical alternative when service ranges and applications are not severe.

composition:

DURLON® 7900, 7925 and 7950 contain high-strength aramid and inorganic fibers bonded with high-grade Nitrile (NBR) 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:	Style 7900 – Off-White, branded Style 7925 – Light Green, branded Style 7950 – Blue, branded
Fiber:	Aramid-Inorganic
Binder:	Nitrile (NBR)
Fluid Services:	Steam, Water, Inert Gases, Oils, Fuels, Dilute Acids & Alkalis
Density:	1.7 g/cm^3 (106 lbs./ft^3)
Tensile Strength, ASTM F152:	1600 psi (11.0 MPa)
Compressibility, ASTM F36:	7 to 17%
Recovery ASTM F36:	40%
Temperature Range: Continuous, max:	 -100 to 700°F (-73 to 371°C) 500°F (260°C)
Pressure, max (ambient temperature):	1200 psig (83 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:	 0 to 15% 15% 0 to 10% 12%
Sealability ASTM F37 (Fuel A): ASTM F37 (Nitrogen):	 0.03 ml/hr 0.5 ml/hr
Dielectric Breakdown, ASTM D149:	11.0 kV/mm (279 V/mil)
ASTM F2378 Gas Permeability:	0.05 cc/min
Creep Relaxation ASTM F38:	20%
Flexibility, ASTM F147:	10x
ASTM F104 Line Call-Out:	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.

*For applications above Class 300, consult your representative.

m&y and proposed astm gasket constants:

THICKNESS	1/16"	1/8"
M	3.0	3.2
Y psi (MPa)	3347 (23.1)	3385 (23.3)
Gasket Constants		
Gb psi (MPa)	497 (3.4)	486 (3.4)
a	0.226	0.276
Gs psi (MPa)	3 (0.02)	0.4 (0.003)
*Gasket Constants based on proposed ASTM Draft 10.1		

available sheet sizes:

Nominal Thickness	Sheet Sizes inches	Sheet Sizes mm	Order Code 7900	Order Code 7925	Order Code 7950	Sheets Per Roll	Approx. Weight/Sheet lbs (kg)
1/64" 0.5mm	60 x 63	1524 x 1600	DW05-060-063	BS05-060-063	DS05-060-063	20	3 (1.4)
	60 x 126	1524 x 3200	DW05-060-126	BS05-060-126	DS05-060-126	10	7 (3.2)
1/32" 0.8mm	60 x 63	1524 x 1600	DW08-060-063	BS08-060-063	DS08-060-063	20	7 (3.2)
	60 x 126	1524 x 3200	DW08-060-126	BS08-060-126	DS08-060-126	10	14 (6.4)
1.0mm	60 x 63	1524 x 1600	DW10-060-063	BS10-060-063	DS10-060-063	20	9 (6.4)
	60 x 126	1524 x 3200	DW10-060-126	BS10-060-126	DS10-060-126	10	19 (8.6)
	120 x 126	3048 x 3200	DW10-120-126	BS10-120-126	DS10-120-126	5	37 (16.8)
1/16" 1.5mm	60 x 63	1524 x 1600	DW15-060-063	BS15-060-063	DS15-060-063	10	14 (4.1)
	60 x 126	1524 x 3200	DW15-060-126	BS15-060-126	DS15-060-126	5	28 (12.7)
	120 x 126	3048 x 3200	DW15-120-126	BS15-120-126	DS15-120-126	2	55 (25.0)
2.0mm	60 x 63	1524 x 1600	DW20-060-063	BS20-060-063	DS20-060-063	10	18 (8.2)
	60 x 126	1524 x 3200	DW20-060-126	BS20-060-126	DS20-060-126	5	38 (17.2)
	120 x 126	3048 x 3200	DW20-120-126	BS20-120-126	DS20-120-126	2	74 (33.6)
3/32" 2.5mm	60 x 63	1524 x 1600	DW25-060-063	BS25-060-063	DS25-060-063	8	22 (10.0)
	60 x 126	1524 x 3200	DW25-060-126	BS25-060-126	DS25-060-126	4	44 (20.0)
1/8" 3.0mm	60 x 63	1524 x 1600	DW30-060-063	BS30-060-063	DS30-060-063	8	28 (12.7)
	60 x 126	1524 x 3200	DW30-060-126	BS30-060-126	DS30-060-126	4	55 (25.0)
	120 x 126	3048 x 3200	DW30-120-126	BS30-120-126	DS30-120-126	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 methods of test 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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