

Aramid-Inorganic/ NBR

Durlon® 8500, our general-purpose “workhorse” material, contains our unique blend of high strength aramid and inorganic fibres, providing excellent results in steam, hydrocarbons, and new generation refrigerants. Durlon® 8500 passed a modified API 607 fire test at an independent laboratory and has proven to be reliable in situations where temperature and pressure cycling causes failures of lesser quality materials.

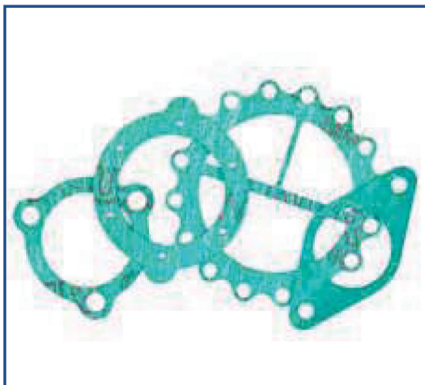
Typical Properties

Colour	Green
Fibre System	Aramid-Inorganic
Binder	NBR
Temperature	
Min	-73°C (-100°F)
Max	371°C (700°F)
Max, continuous	287°C (548°F)
Pressure, max, bar (psi)	103 (1,500)
Density, g/cc (lbs/ft³)	1.7 (106)
Compressibility, % ASTM F36	8 - 16
Recovery, % ASTM F36	50
Creep Relaxation, % ASTM F38	20
Tensile Strength across grain ASTM F152, MPa (psi)	13.8 (2,000)
Fluid Resistance, ASTM F 146 IRM 903 Oil 5 hours at 149°C (300°F)	
Thickness Increase, %	0 - 15
Weight Increase, %	15
ASTM Fuel B 5 hours at 21°C (70°F)	
Thickness Increase, %	0 - 10
Weight Increase, %	12
Sealability	
ASTM F37 (Fuel A), ml/hr	0.01
ASTM F37 (Nitrogen), ml/hr	0.4
ASTM F2378 (Nitrogen), ml/hr	0.03
Volume Resistivity, ohm-cm ASTM D257	4.2 x 10 ¹³
Dielectric Breakdown ASTM D149, , kV/mm (V/mil)	11.7 (297)
Gasket Factors	1/16" 1/8"
m	2.7 4.2
Y, psi (MPa)	2,359 (16.3) 2,931 (20.2)
G _y , psi (MPa)	650 (4.5) 400 (2.8)
a	0.330 0.350
G _a , psi (MPa)	200 (1.4) 20 (0.1)
Flexibility, ASTM F147	10x

* See note on ASTM testing properties on page 60.

Benefits

- Versatile
- Our very best general purpose premium gasket material
- Thermal strength
- Our unique fibre matrix provides superior sealing in cyclical applications including steam and hot oils
- Passed the modified 607 Fire Test at an independent laboratory
- HVAC OEM service proven
- Durlon® 8500 has passed HVAC service fitness and compatibility test for most of the next generation refrigerants and lubricants



Durlon® 8500

Certifications

California Proposition 65	Compliant
RoHS	Compliant