

## 7760 (DuraSwell)

Aramid/Inorganic with SBR Rubber Binder  
Compressed Non-Asbestos Gasket Material  
ASTM F104: F722990-B5E09L100M9



A gasket material for demanding applications that require excellent sealability, conformity to flange surface imperfections and material recovery. The material is designed to swell when in contact with oils and fuels. This helps increase the gasket stress for applications that require increased gasket loading that may previously be limited, due to insufficient bolting or flange constraints. Applications include water, fuel, oils, coolants and heavy duty equipment; oil pan covers, gear case and flywheel housing.

### BENEFITS:

- Superior sealing of uneven flange surfaces
- Excellent bolt torque retention
- Tight seal for low bolt load applications
- Ideal for compressors, gear boxes, and transformers
- Better and longer performance life than elastomer gaskets
- Will not weep – controlled cure process finished the cure cycle after fluid absorption and swell on the ID exposed area
- Seals tighter and accepts higher system pressure than vegetable fiber gaskets
- Controlled swell – engineering ensures flange bolts are not overstressed
- Swell characteristics – significantly reduce creep relaxation, as compared to vegetable fiber and elastomer gaskets

### INDUSTRY APPLICATIONS:

- General/Heavy Industry
- OEM Services
- Water & Waste Water

### Gasket Factors - 1/16"

|                          |              |
|--------------------------|--------------|
| m                        | 6.9          |
| Y psi (MPa)              | 2,412 (16.6) |
| G <sub>b</sub> psi (MPa) | 95 (0.655)   |
| a                        | 0.609        |
| G <sub>s</sub> psi (MPa) | 4 (0.027)    |

**Note:** ASTM properties are 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 specifications limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

### Physical Properties

|  |                |
|--|----------------|
| Color  | Off-White      |
| Fiber System   | Synthetic      |
| Proprietary SBR Blend                                    | SBR Blend      |
| Temperature: Min   | -73°C (-100°F) |
| Max  | 344°C (650°F)  |
| Continuous, Max  | 205°C (400°F)  |
| Pressure, max, bar (psi)                                 | 69 (1,000)     |
| Continuous, bar (psi)                                    | 34.5 (500)     |
| Density, g/cc (lbs/ft <sup>3</sup> )                     | 1.65 (103)     |
| Compressibility, %                                       | 7-17           |
| Recovery, %  | 50             |
| Creep Relaxation, %                                      | <30            |
| Tensile Strength, MPa (psi)                              | 14.8 (2,100)   |
| Fluid Resistance, ASTM F146<br>IRM 903 Oil 5hrs at 300°F |                |
| Thickness Increase, %                                    | <75            |
| Weight Increase, %                                       | <50            |
| ASTM Fuel B 5hrs at 70°F                                 |                |
| Thickness Increase, %                                    | 15-30          |
| Weight Increase, %                                       | <30            |
| Nitrogen Sealability, ASTM 2378                          | 0.01 cc/min    |
| Flexibility, ASTM F147                                   | 4x             |

### Certifications

|                        |           |
|------------------------|-----------|
| RoHS Reach Declaration | Compliant |
|------------------------|-----------|

**Warning:** Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications stated are typical. No applications should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious injury. Data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained within are subject to change without notice. This edition cancels and obsoletes all previous editions.

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