



Durlon 9400

|  |                 |
|--|-----------------|
| Colour   | Black           |
| Filler System  | Carbon          |
| Temperature  |                 |
| Min  | -212°C (-350°F) |
| Max  | 288°C (550°F)   |
| Continuous, Max  | 260°C (500°F)   |
| Pressure, max, bar (psi)                               | 103 (1,500)     |
| Density, g/cc (lbs/ft <sup>3</sup> )                   | 2.1 (103)       |
| Compressibility, %<br>ASTM F36                         | 5-12            |
| Recovery, %<br>ASTM F36                                | 40              |
| Creep Relaxation, %<br>ASTM F38                        | 30              |
| Tensile Strength, across grain<br>ASTM F152, MPa (psi) | 14.5 (2,100)    |
| Sealability, cc/min<br>ASTM F2378 (Nitrogen)           | 0.01            |
| Volume Resistivity, ohm-cm<br>ASTM D991                | 61              |
| Dielectric Breakdown<br>ASTM D149, kV/mm (V/mil)       | 1 (33)          |

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.

## Durlon 9400

Carbon Filler with Pure PTFE Resins  
Filled PTFE Gasket Material  
ASTM F104: F452111-A9B5E11M6

DURLON 9400 gasket material is a high performance filled PTFE designed for use in piping and equipment in chemical, pharmaceutical, food and other general industrial applications where resistance to highly aggressive chemicals (including hydrofluoric acid) is required. Style 9400 conforms to FDA requirements. It can also be used as gasketing for anhydrous hydrogen fluoride (AHF) in railroad tankcars and in plants as a material of construction where barium sulfate filled PTFE may not prove suitable. Note: that as a class, PTFE gasket materials are not recommended in liquid oxygen services where there is THERMAL CYCLING due to thermal shock and the difference of the coefficient of expansion between PTFE and steel.

DURLON 9400 is made of pure PTFE resins combined with carbon fillers homogeneously dispersed throughout the compound. DURLON 9400 does not exhibit the cold flow problems associated with virgin PTFE yet has excellent sealability, flexibility, non-sticking and cutting characteristics. DURLON 9400 also demonstrates good electrical conducting properties.

| Gasket Factors | 1/16"        | 1/8"         |
|----------------|--------------|--------------|
| m              | 6.8          | 6.8          |
| Y, psi (MPa)   | 2,765 (19.1) | 3,105 (21.4) |
| Gb, psi (MPa)  | 1,701 (11.7) | 1,412 (9.7)  |
| a              | 0.173        | 0.164        |
| Gs, psi (MPa)  | 99 (0.7)     | 248 (1.7)    |