

SF 2420 is a high quality aramid fiber reinforced sheet with SBR binder, excellent for sealing steam, water, gases, oils, mild solvents and/or alkalis. The data given below is based on 1/32" sheet, except as otherwise noted.

**SERVICE**

|                           |               |
|---------------------------|---------------|
| Max T (at min. thickness) | 752°F (400°C) |
| Max P (at min. thickness) | 1450 psi      |
| pH Range                  | 3 - 11        |

**PHYSICAL PROPERTIES**

|   |  |
|---|--|
| Color                                     | Off-White  |
| Density                                   | 112 lb/ft <sup>3</sup> (1.80 g/cc)                       |
| Sheet Thickness                           | 1/64" - 1/8" (0.50 mm - 3.20 mm)                         |
| Sheet Size (also available in full rolls) | 60" x 60", 60" x 120" (1.50 m x 1.50 m, 1.50 m x 3.00 m) |

**MECHANICAL PROPERTIES (ASTM F152)**

|                     |                     |
|---------------------|---------------------|
| Cross Grain Tensile | 1910 psi (13.2 MPa) |
| With Grain Tensile  | 4350 psi (30.0 MPa) |

**IMMERSION PROPERTIES (ASTM F146)**

|                    |                    |      |
|--------------------|--------------------|------|
| Thickness Increase | Oil #3 @ 300°F     | 1.9% |
|                    | Fuel B @ 70 - 85°F | 1.3% |
| Weight Increase    | Oil #3 @ 300°F     | 6.4% |
|                    | Fuel B @ 70 - 85°F | 3.3% |

**SEALING PROPERTIES**

|           |  |             |
|-----------|--|-------------|
| ASTM F36J | Compressibility                          | 7.5%        |
|           | Recovery                                 | 52%         |
| ASTM F37A | Fuel A @ 50 psi & 1000 psi Gasket Stress | 0.50 mL/hr  |
| ASTM F38  | Creep Relaxation                         | 13.7%       |
| BS 7531   | Nitrogen Gas Permeability                | 0.02 mL/min |



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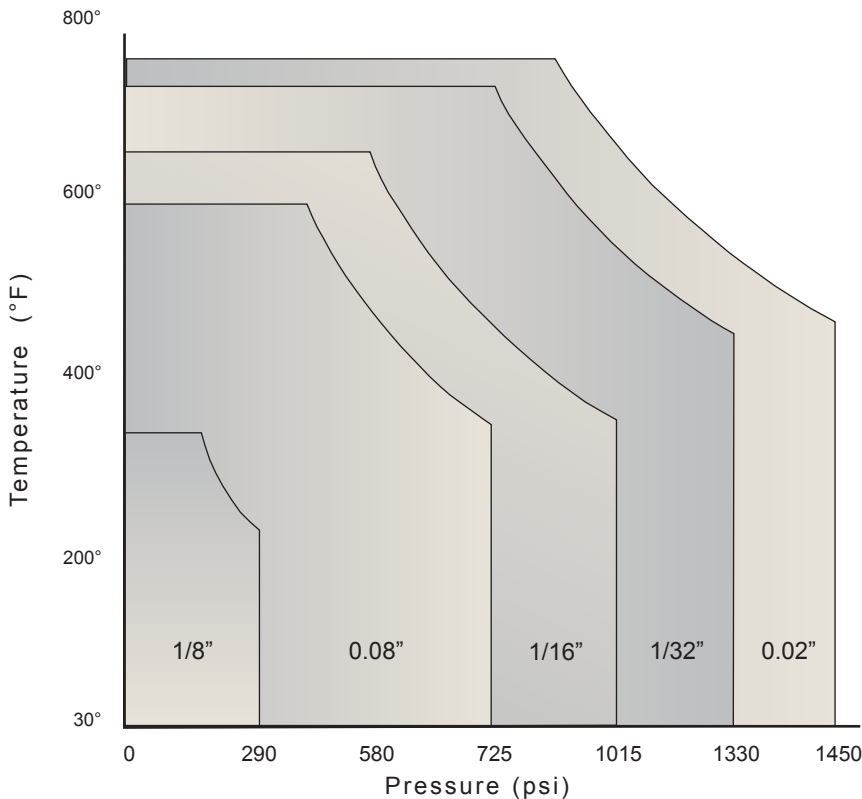
## DESIGN INFORMATION

|                              |                              |   |
|------------------------------|------------------------------|---|
| Gasket Constants             | m                            | 3.2                                     |
|                              | y                            | 2900 psi (20.0 MPa)                     |
| PVRC Constants (1/16" thick) | Gb                           | N/A                                     |
|                              | a                            | N/A                                     |
|                              | Gs                           | N/A                                     |
| TPmax                        | N/A                          |   |
| Recommended Surface Finish   | 125 - 250 µin (3.2 - 6.3 µm) |   |
| Dielectric Strength          | 4.2 kV/mm                    |   |
| ASTM Callout                 | 711110M5 †                   | † some digits may be chosen differently |

## PRESSURE CONTAINMENT AND TEMPERATURE

| SF 2420 Thickness (in.) | 0.020 | 1/32 | 1/16 | 0.080 | 1/8 |
|-------------------------|-------|------|------|-------|-----|
| Max. Temperature (°F)   | 752   | 725  | 644  | 599   | 356 |
| Max. Pressure (psi)     | 1450  | 1330 | 1015 | 725   | 290 |

NOTE: Above pressure/temperature cannot be used simultaneously.



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