



| EXPANDED PTFE SHEET (Rev. 4; 11/1/16) | |
|--|--|
| Sheet Size | 60" x 60" nominal (59" x 59" min) |
| Sheet Thicknesses | 1/32", 1/16", 1/8", 1/4" |
| Composition | 100% Expanded PTFE (no fillers or additives) |
| Color | White |
| Density | 0.8 +/- 0.08 g/cc |
| Pressure Range | Full Vacuum to 3,000 psi |
| Temperature Range | -450°F to 525°F (-265°C to 260°C) continuous -450°F to 600°F (-265°C to 315°C) intermittent |
| Pressure x Temperature (psi x deg F) | 350,000 max |
| pH Range | 0-14 (resistant to all common chemicals, except molten alkali metals and elemental fluorine) |
| FDA | Compliant with 21 CFR 177.1550 |
| Stability | No Age Deterioration Unlimited Shelf Life |
| ASTM Testing | |
| Compressibility (ASTM F-36) | 58% |
| Recovery (ASTM F-36) | 0% |
| Sealability (ASTM F-37; Method B; N2 Gas; 30 psi; 1/32" thick test specimen) | 0.02 ml/min |
| Creep Relaxation (ASTM F-38; Method B; 1/32" thick test specimen) | 21% |
| Below Data based on 1/8" material | |
| ROTT Gasket Constants: | |
| G _b | 1740 psi |
| a | 0.169 |
| G _s | 4.6 psi |
| ROTT Tightness Parameters | |
| T _{pmin} | 18 |
| T _{pmax} | 51738 |
| S ₁₀₀ | 3781 psi |
| S ₁₀₀₀ | 5573 psi |
| S ₃₀₀₀ | 6707 psi |
| S ₁₀₀₀₀ | 8215 psi |
| HOBT2 Reserve Operating Temperature | |
| 435 psi (Class 150) | 541°F |
| 1015 psi (Class 300) | 455°F |