



EXPANDED PTFE SHEET (Rev. 2; 10/15/15)	
Sheet Size	59" x 59" (1500mm x 1500mm)
Sheet Thicknesses	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	541°F
1015 psi	358°F