**35 Prospect Place**
**Deer Park, NY 11729**
**631-254-4381**

# EXPANDED PTFE

Revised 6/23

**Features:** Pure, multidirectionally expanded PTFE, asbestos free, chemically resistant to fluids from 0 to 14 in the pH range. Limitations for uses with fluorine and alkali metals at high temperatures and pressures. Planifoln E does not age, does not harden and is the sealant that raises the qualities of PTFE and reduces their limitations.

**Recommended Uses:** Thanks to its unique structure, EXPANDED PTFE is able to face many application problems in the chemical, pharmaceutical and food industry where PTFE should be the best solution if it is able to offer improved mechanical characteristics in comparison to the full density, skived PTFE. Practically, the cold flow of this surface up to 100 N/nm2. Planifoln is also particularly indicated for low clamping load applications in the presence of fragile flanges (graphite, glass, etc.) thanks to its very positive deformation curve, and grants long lasting and self operative life. FDA suitable (231 CFR 177.1550).

- Available in full rolls and trimmed sheets
- Can be supplied in cut-to-width strips
- Pressure sensitive adhesive backing is also available
- Size vulcanized to infinity

**Operating Temperature:** -450°F to 600°F
**Sizes:**
**Thicknesses:** 1/16" to 1/4"

**For Static Seals**

| | |
|---|---|
| Specific gravity oz/in³ | 0.434 (DIN 3754) |
| Temperature (°F) | -450°F to 600°F |
| Pressure (LBF/IN²) | 2.250 |
| pH | 0 – 14 |

| Expanded PTFE Sheet | | (Thick. Inch) | 1/16" | 1/8" |
|---|---|---|---|---|
| Compressibility | ASTM F36 | % | 69 | 66 |
| Sealability<br>Fuel A (iso-octane)<br>Fuel B (nitrogen) @60psig | ASTM F-37B | <br>ml/hr<br>ml/hr | <br>0.001<br>0.160 | |
| Recovery | ASTM F36 | % | 7.4 | 11.6 |
| Creep Relaxation | ASTM F-38 | | 38 | 38 |
| Tensile Strength | ASTM F-152 | PSI | 1,630 | 2,100 |
| Specific Gravity | | Oz/in3 | 0.434 | 0.434 |
| ASTM Factors: | "m"<br>"y"<br>"y" | N/mm2<br>Psi | 3.2<br>24.5<br>3,500 | 2.5<br>20.09<br>2,900 |

Note: Results listed are typical and not minimums. Requirements should not be based on typical values. This is a general guide and should not be the sole means of selecting or rejecting this material.