



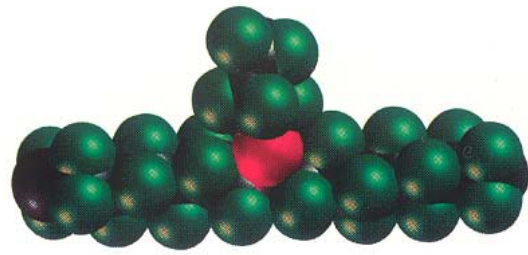
## The Maintenance Free Ball Valve

**Legend Valve Models T/S-1001, 1004, 1100, 1009, and T-900 MXF Series Ball Valves are now manufactured with TFM Seats in place of conventional PTFE (Teflon) Seats. This new polymer developed by Dyneon, a 3M Company has many properties that enhance the already superior performance of the Legend Flagship Series of Ball Valves. The Maintenance Free Ball Valves Dual Viton O-Rings seal the stem requiring no packing gland and packing nut. The design requires less torque to actuate and lengthens the life of the seats.**

The basic difference between classic PTFE and TFM – PTFE is in the chemical structure of the compounds as evidenced in the following illustration:



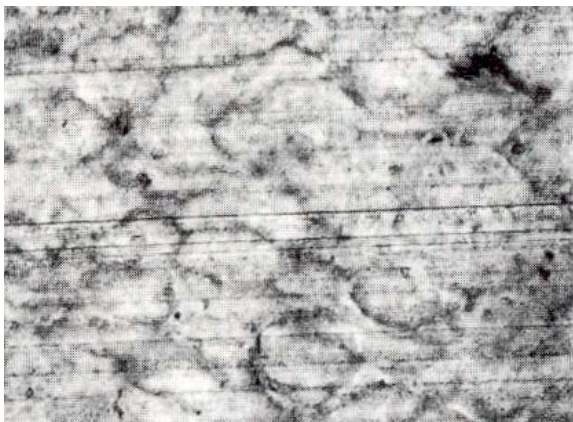
PTFE



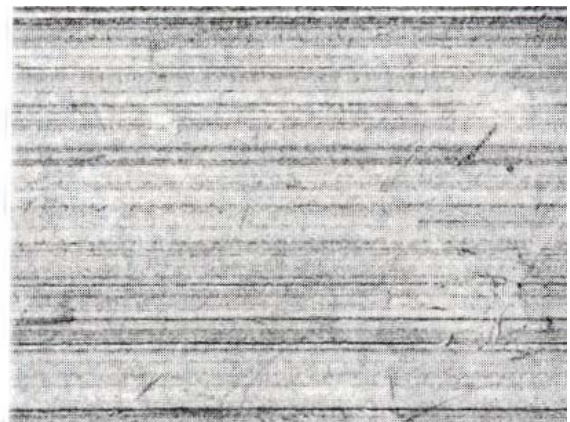
PTFE-TFM

The red atom (Oxygen) is the modification element used in the structure. This modification significantly enhances the properties of the material.

The actual photographs below are of PTFE and TFM-PTFE (as viewed under an electron microscope) that clearly illustrates the denser, smoother characteristics of the TFM material.



Conventional PTFE

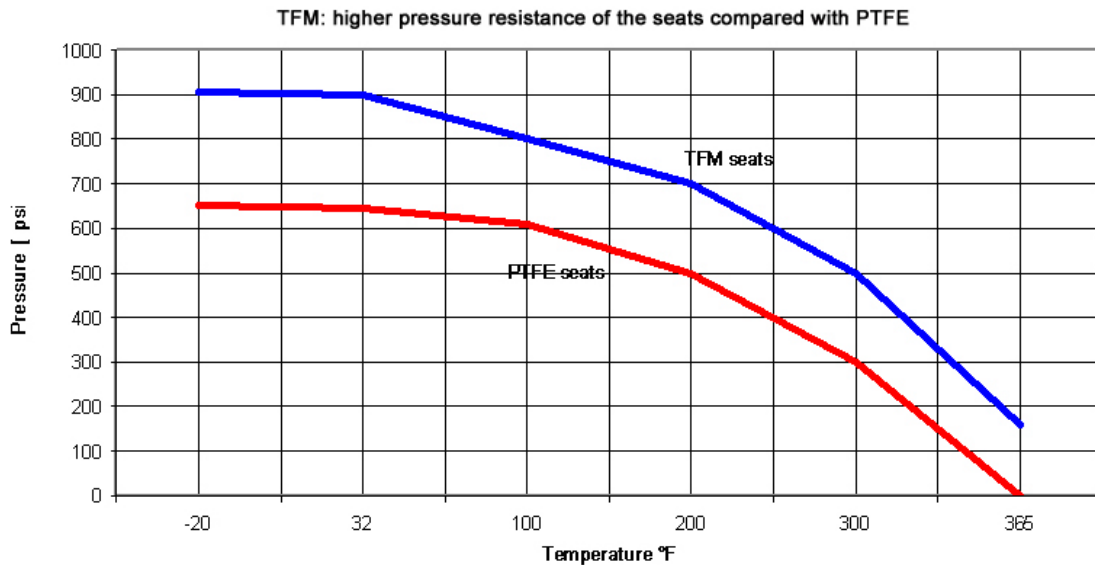


Modified TFM PTFE

**The Improvements:**

- Exceptional Chemical and Thermal Resistance.
- Lower distortion when compressed.
- More compact structure.
- Lower permeability.
- Better elasticity, especially at high temperature.
- Very smooth surface.

The following graph depicts the pressure and temperature relationship between Seats made of TFM and Seats made of PTFE. The T/S 1001 Ball Valves are rated **600 PSI WOG**, (Water, Oil, Gaseous).



The results of this enhancement include a 25% improvement in the operating pressure (of the seat material, not the valve) and greater temperature resistance. The denser composition of the TFM makes it less permeable thereby offering superior resistance to aggressive chemicals. In addition, the compact molecular structure of the TFM Seat ensures a smooth surface creating less friction between the seat and the ball. This results in easier actuation and a longer life expectancy of the seats.

The aforementioned Legend ball valves are manufactured in a completely automated, ISO 9001 factory using ASTM forging brass alloy, each valve is air pressure tested during the process. The result is Extremely High Quality and Reliability. The new seat material is further evidence of Legend’s steadfast commitment to quality throughout the entire product offering.

Good Selling!

Sincerely,

Legend Sales Management