

Typical Physical Properties:

Virgin Premium PTFE ENFLON 301

Test Property	Average Results	Unit of Measure
Tensile Strength	4,000	psi
Tensile Elongation (at break)	350	%
Specific Gravity	2.16	
Max Operating Temp (°F / °C)	500 / 260	
Shore D Hardness	54	
Compressive Strength, D695-54 1% Strain A* B**	630 -	psi
0.2% offset A* B**	1100 -	psi

A* designates properties tested parallel to direction of molding.

B** designates properties tested perpendicular to molding direction.

100% Virgin Premium PTFE

Virgin PTFE is almost universally inert. Components made of this material exhibit excellent impermeability to most corrosive liquids, vapors, and gases, even at elevated temperatures, as well as under pressure and vacuum. They are affected only by molten alkali metals, fluorine and chlorine tri-fluoride at elevated temperatures and pressure. Virgin PTFE has exceptional electrical and dielectric properties, but can be somewhat limited for mechanical applications. It will creep or cold flow when a compressive load is applied. Since it is a soft material, it can also experience a high rate of wear when used in a dynamic situation. The addition of inert fillers will increase resistance to wear, deformation and creep.