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# Armadillo PTFE

100% Virgin PTFE

## Typical Physical Properties:

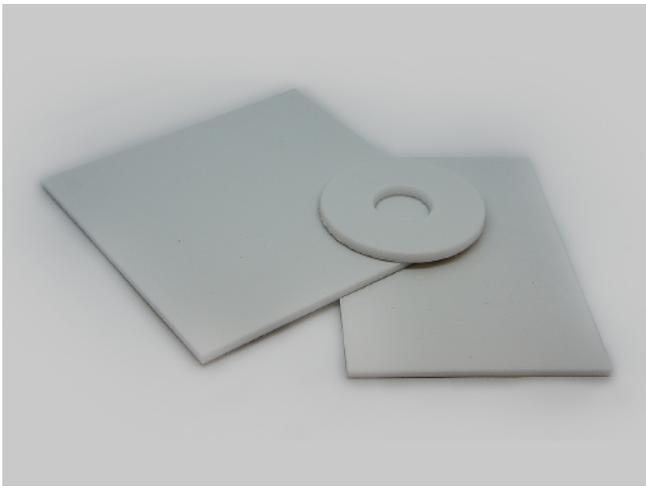
Virgin PTFE is almost universally inert. Components made of this material exhibit excellent impermeability to most corrosive liquids, vapors, and gases, even at elevated temperatures, as well as under pressure and vacuum. They are affected only by molten alkali metals, fluorine and chlorine tri-fluoride 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.

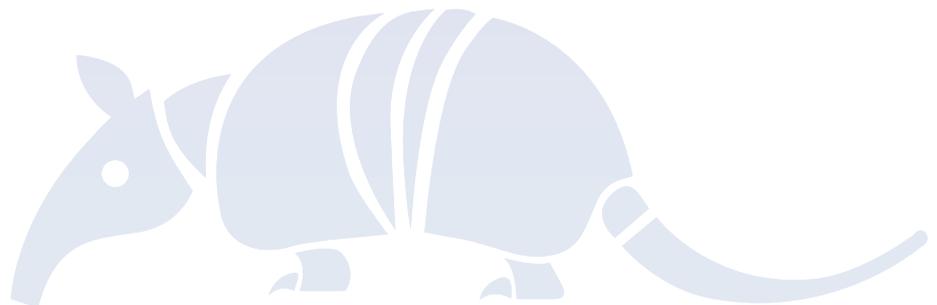
A\* designates properties tested parallel to direction of molding.

B\*\* designates properties tested perpendicular to molding direction.

| Test Property  | Average Results                 |
|--|---------------------------------|
| Tensile Strength   | 3,000 psi                       |
| Tensile Elongation ( at break)                             | 250%                            |
| Specific Gravity   | 2.14 - 2.16                     |
| Max Operating Temp<br>(°F / °C)                            | 500 / 260<br>-450°F/-2<br>60° F |
| Shore D Hardness   | 54                              |
| Compressive Strength,<br>D695-54 1%<br>Strain<br>A*<br>B** | 630 psi                         |
| 0.2% offset<br>A*<br>B**                                   | 1100 psi                        |



PTFE Material



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