

Tetrafluoroethylene & Propylene (TFE/P) is a member of a new generation of fluoroelastomers compounded especially to provide unique properties for specific applications. The primary uses for TFE/P are in parts for oil drilling equipment. It can be crosslinked (cured) using a variety of systems, but generally peroxides are used to provide the best all around environmental resistance. A unique property of TFE/P is that at very low temperatures (down to -54°C) it takes on leathery consistency and remains functional, unlike many other rubbers which can often become brittle and shatter. It has chemical resistance to strong acids and bases, has high electrical resistivity and excellent oil resistance.

Limitations: Avoid polar solvents and aromatic fuels. Compression set performance may be too high for some applications.

Temperature Resistance: -20° to 200°C (-4° to 392°F)

Typical Uses: Oil Fields, Coater/Developer, Resist Stripping, CMP

Physical Properties:

	Excellent	Good	Fair	Poor
Tensile strength		•		
Elongation			•	
Low temperature flexibility		•		
Compression Set		•		
Tear resistance			•	
Abrasion resistance	•			
Flame resistance	•			
Gas permeability		•		

Chemical Resistance:

	Excellent	Good	Fair	Poor
Concentrated bases	•			
Dilute acids and bases	•			
Ozone	•			
Weather	•			
Steam		•		
Radiation		•		
Phosphate esters		•		
Oxidation		•		
Esters			•	
Ethers			•	
Aliphatic hydrocarbons			•	
Aromatic hydrocarbons				•
Ketones				•