

## FLUOROPOLYMERS

A fluoropolymer (FP) is a fluorocarbon based polymer with multiple strong carbon–fluorine bonds. It is characterized by a high resistance to solvents, acids, and bases. Fluoropolymers share the properties of fluorocarbons in that they are not as susceptible to the van der Waals force as hydrocarbons. This contributes to their non-stick and friction reducing properties. Also, they are stable due to the stable multiple carbon–fluorine bonds in a chemical compound.

We, at RCS, have a **wide range of FP coatings** ranging from **PTFE, PFA, FEP, ETFE, etc.**, which, in general exhibit the characteristics of a fluoro-polymer, and in specific, have distinct properties of their own. We select the most suitable surface coating material according to our customer's specific needs and requirements.

### Properties of Fluoropolymers:

1. Chemical inertness
2. Excellent dielectric properties
3. Non – flammability
4. Self-lubricating
5. Resistance to weathering
6. Anti-stick
7. Practically no moisture absorption

Fluoro Polymers are useful in a wide variety of industries like:

- Aerospace
- Automotive
- Bearings / Retainers
- Chemical Processing
- Commercial Bakery
- Consumer Products
- Die Casting
- Fasteners
- Filtration Media/Cloth/Screen
- Food Processing
- Glass Coated with Teflon®
- Industrial Coatings
- Industrial
- Marine
- Molding
- Plastics
- Plating
- Printing
- Racing
- Rubber Products
- Screw Machine
- Solenoid Plungers
- Spring
- Stamping
- PTFE Coated Medical Components
- Valves / Pump
- Wire Products
- *and many more*