



Materials for Seal Applications

ISOCOMP™ performance PTFE composites have been developed and engineered for processing with optimum properties using Teflon® PTFE and other premium virgin base resins. Together with fillers such as polyimide, ekonol, PPS, glass fiber, ceramic's, bronze, carbon, graphite, moly, carbon fiber etc. Isocomp specialise in two and three component filled PTFE compounds in smaller batches and quick delivery.



SEAL MATERIALS

Property requirements for PTFE compounds used in seals applications can include:



- Low Friction
- High Wear Resistance
- Low Debris
- Low Abrasion of softer mating surfaces
- High Flex
- High Tensile Strength
- Low Weight
- Thermal Conductivity

Prominent Materials	Summary and Applications
Ticomp S	Excellent tribological properties. Chemical resistance close to Virgin PTFE. High transfer film ductility and low wear, gives good adhesive wear. Constituents FDA approved. Used for static and rotary seals running on soft mating surfaces
CF	Improved wear and creep properties over glass and graphite compounds. Good thermal conductivity properties along with the high wear resistance it also exhibits low abrasion of mating surfaces.
Ceramic's	Improve on the creep resistance of Virgin materials, includes Rulon and Shamban style compounds which can improve the abrasion and tribological properties of glass.
Co-polymer resin	ISOCOMP™ T series resins use chemically modified PTFE as the base resins, with excellent improvements in deformation under load and permeability – very useful in demanding sealing applications. Denser polymer structure, lower void content, lower permeation, higher dielectric strength and smoother surface

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IN HOUSE LABORATORY AND TESTING FACILITIES



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ISOCOMP TECHNOLOGIES.

P.O. Box 545 Pennant Hills 1715 NSW Australia

Telephone (02) 9980 1933 Fax. +61-2-9980 1877

∴ www.fluoropacific.com/isoweb Email: isocomp@fluoropacific.com