

TECHNICOR

PRECISION PLASTICS

TechTips

THE STORY BEHIND TEFLON®

Poly-Tetra-Fluoro-Ethylene (PTFE) was the first fluorocarbon thermoplastic, accidentally invented by Roy Plunkett of Kinetik Chemicals in 1938, patented under the trademark TEFLON® in 1944, and later acquired by The DuPont Corporation. It is the most chemically resistant plastic known. Only a few chemicals react with it. Two other lucrative properties are its broad temperature range (-400°F to + 500°F) and its low coefficient of friction (0.05 against steel). Mechanical properties can be improved by the addition of fillers such as glass fiber, carbon, graphite, molybdenum disulfide and bronze. It is difficult to make anything adhere to PTFE. A material may stick to it, but the material can be peeled off or rubbed off.

Typical PTFE applications include: solid pipe and fittings; liners; gaskets and spacers; valve components; seals; piston rings; bushings and bearings; slides; coated fabrics and films.

OTHER PRODUCTS BY TECHNICOR



WHERE TO
FIND US

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