FPM (FLUORURATE)

APPLICATION
The remarkable resistance of the Fluoroelastomers to heat and to chemical agents has improved the performances of some details for automotive, airplanes and many types of industrial devices. They enable the supplying to industry of items like O-rings seals, diaphragms, coverings, rubberized fabrics, pipes and a large assortment of special articles, which can be used in a very wide range of working conditions.

RESISTENCE TO OILS, FATS AND CHEMICAL AGENTS
The performances of the Fluorurate in contact with fuels, oils, solvents and chemical agents are not equaled by any other types of syntethic rubber. Further It has an excelent resistance to lubricants, to the majority of mineral acids and to many aliphatic and aromatic hydrocarbons, as carbon tetrahcloride, toluolo, benzol and xylol.

PROPERTIES AT LOWS TEMPERATURES
The fluorurate mixture in 2 mm thicked samples shows a range of hardness temperature (the modulus of rigidity is 700 Kg/cm2) from -10 to -15 °C, and a range of infrangibility temperature from -40 to 44 °C. In some uses, special articles for low working temperatures have given satisfactory results down to -50 °C.

RESISTANCE TO SUN LIGHT, TO ATMOSPHERIC AGENTS AND TO OZONE
The Fluoroelastomers had resisted for more than one year in ozone concentration of 10,000 elements in 100,000,000 elements of air, without any cracks. After a two years exposure to the sun in Florida, a fluorurate is still in in perfect condition.

RESISTENCE TO HEAT
The Fluoroelastomers have an extraordinary resistance to heat. The Fluorurate moulded items remain elastic forever in oven at 205 °C. They have experimented that this items remain elastic for more than:

4800 hours at 200 °C	1000 hours at 260 °C
3000 hours at 230 °C	240 hours at 290 °C
1440 hours at 250 °C	48 hours at 320 °C

RESISTENCE TO FIRE
The Fluoroelastomers don't conduct fire; they burn in contact with fire, but they burn out when they are taken away.