

Tecnoflon® PFR 94

perfluoroelastomer

Tecnoflon® PFR 94 is a chemical resistant perfluoroelastomer (FFKM). Tecnoflon® PFR 94 offers the widest range of aggressive media sealing capabilities along with excellent compression set values.

Tecnoflon® PFR 94 is suitable for most applications in temperature ranging from -10 °C to 230 °C, offering outstanding resistance to aggressive media such as hot organic and inorganic acids, caustics, ketones, aldehydes, esters, ethers, alcohols, fuels, solvents, sour gases, hydrocarbons, steam, hot water, ethylene and propylene oxide and mixed process streams. Moreover it can cope with a wide range of potent active pharmaceutical ingredients (APIs) and aggressive cleaning agents, being especially suited to withstand steam-in-place (SIP) and clean-in-place (CIP) procedures.

PFR 94 can be combined with the cure system and other typical fluoroelastomer compounding ingredients; its mixing can be accomplished with two-roll mills or internal mixers. Finished goods may be produced by a variety of rubber processing methods.

The primary use for PFR 94 is the manufacturing of any kind of elastomeric sealing element such as O-rings, gaskets, valve bodies, butterfly valves, pump housings and stators,

metal bonded parts, diaphragms, profiles, etc. These sealing elements can be used in mechanical seals, pumps, compressors, valves, reactors, mixers, sprayers, dispensers, quick connect couplings, controls, instrumentation, etc. in a wide range of industrial sectors, such as semiconductor manufacturing, chemical process industry, oil & gas, food and pharma and paint spray.

Tecnoflon® PFR 94 is registered in the FDA Inventory of Effective Premarket Notifications for Food Contact Substances. It can be compounded so that the finished gaskets or seals can be used in food processing equipments (see "food processing compounds" section on pages 7-8-9).

Tecnoflon® PFR 94 is marketed in the form of raw polymer (1 kg box) in order to give the transformer the freedom and the opportunity to develop and fine-tune compounds and items best suited to the final application.

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General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Features	• Acid Resistant • Alcohol Resistant • Chemical Resistant • Food Contact Acceptable • Fuel Resistant	• Low Compression Set • Moisture Resistant • Solvent Resistant • Steam Resistant
Uses	• Blending • Compounding • Diaphragms • Gaskets	• Profiles • Pump Parts • Seals • Valves/Valve Parts
Agency Ratings	• FDA Food Contact, Unspecified Rating	
Appearance	• Translucent	
Forms	• Slab	
Processing Method	• Compounding	

Physical

Typical Value Unit

Mooney Viscosity ¹ (ML 1+10, 121°C)	35 MU
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Notes

Typical properties: these are not to be construed as specifications.

¹ Raw polymer