

Tecnoflon® PFR 06HC

perfluoroelastomer

Tecnoflon® PFR 06HC is a new chemical resistant perfluoroelastomer (FFKM). Tecnoflon® PFR 06HC offers the widest range of aggressive media sealing capabilities along with excellent compression set values.

It 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, amines (especially hot amines, i.e. at temperature higher than 70°C), 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.

Moreover its structure was specifically designed to deliver enhanced extrusion resistance and rapid gas decompression (RGD or explosive decompression ED) resistance requested for many high pressure gas applications in the oil & gas industry.

Its extreme cleanliness along with its broad chemical resistance make PFR 06HC the suitable sealing material for

most wet semiconductor processes (wafer cleaning, polymer removal, wet etching, polishing), for photolithography developing and stripping and for general purpose fab equipments (pumps, scrubbers, filters, chemicals delivery systems).

PFR 06HC 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 06HC 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.

Tecnoflon® PFR 06HC 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.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Acid Resistant • Alcohol Resistant • Fuel Resistant	• Good Chemical Resistance • Low Compression Set • Moisture Resistant	• Solvent Resistant • Steam Resistant
Uses	• Blending • Compounding • Diaphragms	• Gaskets • Profiles • Pump Parts	• Seals • Valves/Valve Parts
Appearance	• Translucent		
Forms	• Slab		
Processing Method	• Compounding		

Physical

	Typical Value Unit	Test method
Mooney Viscosity ¹ (ML 1+10, 121°C)	75 MU	No Standard

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Notes

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

¹ Raw polymer

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