

# Kyflon™ 3000

Perfluoroelastomer O-Rings, Gaskets, O-Ring Cord Stock, Vulcanized O-Rings and Sheet



**Kyflon 3000** is a general purpose carbon filled perfluoroelastomer compound that has outstanding high temperature capabilities (continuous up to 590° F). It has low compression set characteristics along with the broad chemical resistance found with perfluoroelastomer based compounds. **Kyflon 3000** is suited for most applications in all industries. It is not recommended for use with water/steam and aliphatic amines at higher temperatures. A physical property comparison to Kalrez® 4079 and other FFKM can be found in the typical properties chart.

## Features & Benefits

- **Broad chemical compatibility for use with a wide range of harsh solutions**
- **Lower compression set provides better ability to handle temperature and pressure variations, shaft misalignment and o-ring shrinkage**
- **Low temperature capabilities**

## Typical Properties

Physical Properties	ASTM Method	Kyflon3000 Typical Value	Kalrez® 4079 Typical Value	Other FFKM Typical Value
Color		Black	Black	Black
Hardness, Shore A, Points	D2240	75	83	75
Temperature Retraction TR-10 °C	D1429	-5° C	-2° C	
Elongation @ Break %	D1414	175	150	140
Tensile Strength @ Break, psi	D1414	2690	2450	1750
Maximum Continuous Service °F		590	600	446
Maximum Continuous Service °C		310	316	230
Specific Gravity (g/cm <sup>3</sup> )	D297	1.99	1.95	1.93
Compression Set @ 25% Deflection 70 Hours @ 400° F/ 204° C, in Air, % of original deflection		10	37	25
Compression Set @ 25% Deflection 70 Hours @ 527° F/ 275°C, in Air, % of original deflection		25	45	N/A
Compression Set @ 18% Deflection 70 Hours @ 615° F/ 324° C, in Air, % of original deflection		42	N/A	N/A

Unless otherwise noted all tests conducted on AS 568 (-214) o-rings

## Applications

Mechanical seals	Bearing isolators
Valves	Mixers
Pump Housings	Controls/instrumentation
Sampling/metering equipment	Compressors
Reactors	Sprayers/dispensers

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**Kyflon™ is a trademark of Process Technologies, Inc.**

**Kyflon™ 3000 can be used  
in applications exposed  
to the following media:**



Hot water and steam	Seawater, demineralized water, deionized water, boiler feedwater
Amines	Ethanol amine, ethylene diamine, butylamine, monomethyl amine
Inorganic acids	Sulphuric acid, nitric acid, hydrochloric acid, phosphoric acid, hydrofluoric acid
Organic acids	Formic acid, acetic acid, diacetic acid, benzoic acid, terephthalic acid
Bases	Sodium hydroxide, potassium hydroxide, ammonium hydroxide
Aldehydes	Formaldehyde, acetaldehyde, butyraldehyde, benzaldehyde
Aromatic media	Benzene, toluene, phenol, chlorobenzene, aniline, xylene, benzyl chloride
Aliphatic media	Methane, ethane, ethylene, acetylene
Alcohols	Methanol, ethanol, propanol, benzyl alcohol, ethylene glycol
Ether	Dimethyl ether, diethyl ether, ethylene oxide
Esters	Acetate, acrylate, phthalate
Ketones	Acetone, methylethylketone (MEK), diethylketone
Solvents	Methylene chloride, dimethyl formamide (DMF), tetrahydrofuran (THF), MTBE

*Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty for this product.*

*Prior to actual use it is highly recommended that suitable tests be run to determine this product's suitability in a specific application. This is critical where failure could result in injury or damage.*