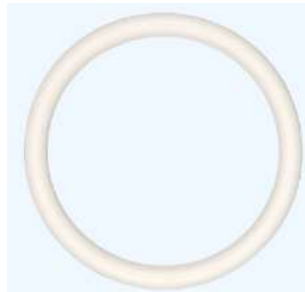


# UPW-01



## Perfluoroelastomer (FFKM)

**UniPol UPW-01** is a special white perfluoroelastomer that developed for all thermal processes with etching gases. The maximum service temperature is 320 °C and it can be used in both static and dynamic sealing applications because of its superior elastic recovery and mechanical strength properties in high temperature processes. **UPW-01** exhibits low outgassing and thermal expansion rate. Also it has outstanding Plasma resistance for Cleaning gas(NF<sub>3</sub>, O<sub>2</sub> etc.) and reactive gas. It is suited to use high-tem deposition, diffusion furnace and dry etching, etc. process.



## Superior performance, cost effectiveness

- Offer total solutions of sealings
- Lower contamination
- Longer life span
- Safe & Easier installation

## Features & Benefits

- ❖ Excellent plasma resistance
- ❖ Excellent compression set
- ❖ Outstanding thermal resistance
- ❖ Very low thermal expansion rate

## Applications

- ❖ Show head seals
- ❖ Lid seals
- ❖ Slit valves
- ❖ Gas inlet seals
- ❖ Windows seals
- ❖ Heater seals
- ❖ Isolator valves

## Recommend Process Application

- ❖ Diffusion, Furnace
- ❖ Dry etch plasma
- ❖ Metallization (PVD, CVD, sputtering, evaporation)
- ❖ Deposition (CVD, PECVD, HDPCVD)
- ❖ Remote plasma cleans
- ❖ Dry ashing

## Typical Physical Properties

Color	White
Tensile Strength (Mpa)	15.75
Elongation at Break (%)	240
100% Modulus (Mpa)	8.2
Shore A Hardness	75
Compression Set	
@ 70hr at 204°C (%)	14
@ 70hr at 300°C (%)	40
Max Temperature (°C)	320



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