

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(NF₃, O₂ 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



Korea Headquater : #469-1, Seoun-myeon Anseong-si Gyeonggi-do, Republic of Korea
Malaysia Branch : 35, Lorong Nagasari 5, Taman Nagasari, 13600 Perai, Pulau Pinang



www.uptkr.com



Tel : +82-31-8057-8090



stevell@uptkr.com