

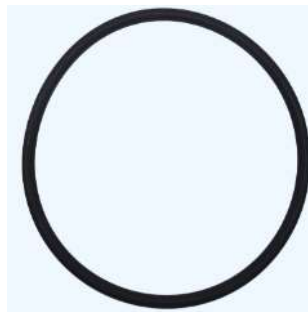
UPB-01



Perfluoroelastomer (FFKM)

UniPol UPB-01 is a black perfluoroelastomer (FFKM) for high temperature plasma with excellent chemical resistance and gas deposition application (Etching, Ashing, Wet chemical process, HDPCVD, PECVD, SACVD, etc) UPB-01 is a material with enhanced physical properties, chemical and heat resistance compare to the existing perfluoroelastomer. It offers low compression set value and low weight loss in oxygen and fluorine-based plasma.

UPB-01 is suitable for use in wet process where oil, solvent, and alcohol are used. And it has outstanding mechanical properties and well-suited for both static and dynamic sealing application.



Superior performance, cost effectiveness

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

Features & Benefits

- ❖ Excellent plasma & chemical 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 & Wet chemical etch
- ❖ Metallization (PVD, CVD, sputtering, evaporation)
- ❖ Deposition (CVD, PECVD, HDPCVD)
- ❖ Wet chemical process
- ❖ Dry ashing

Typical Physical Properties

| | |
|--|-------|
| Color | Black |
| 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 Headquarter : #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