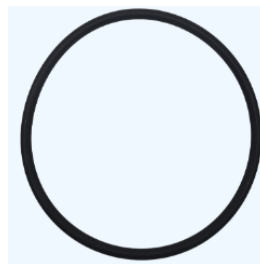


UPB-01



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) *ASTM D412(dumbbell specimens)	15.75
Elongation at Break (%) *ASTM D412(dumbbell specimens)	240
100% Modulus (Mpa)	8.2
Shore A Hardness *ASTM D2240 (button sample)	75
Compression Set @ 70hr at 204°C (%)	14
@ 70hr at 300°C (%) *ASTM D1414 METHOD B (AS568A-214)	40
Max Temperature (°C)	320

NOTE : Minor black marks or variations in color may be observed on UPT FFKM part. These marks are inherent to the curing process and are not indicative of contamination or the presence of foreign material. They are considered normal characteristics of the product and are not expected to adversely affect the performance of the part in service.



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