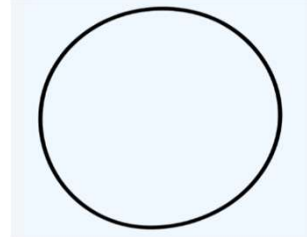


UPC-10



Perfluoroelastomer (FFKM)

UniPol UPC-10 is developed for middle-conductive performance perfluoroelastomer (FFKM) with excellent mechanical property focusing on harsh semiconductor applications such as CVD, Etch. UPC-10 offers electric resistivity (target $10E7$ ohm) and plasma resistance with process gases and cleaning gases like O_2 , NF_3 etc. The maximum service temperature recommend $300\text{ }^\circ\text{C}$



Typical Physical Properties

Color	Black
Tensile Strength (Mpa) <small>*ASTM D412(dumbbell specimens)</small>	21.3
Elongation at Break (%) <small>*ASTM D412(dumbbell specimens)</small>	140
100% Modulus (Mpa)	10.8
Shore A Hardness <small>*ASTM D2240 (button sample)</small>	78 ($\pm 5\%$)
Compression Set @ 70hr at $204\text{ }^\circ\text{C}$ (%) <small>*ASTM D1414 METHOD B (AS568A-214)</small>	14
Max Temperature ($^\circ\text{C}$)	300
Density (g/cm ³)	2.015
Electric Resistance (ohm)	$1E7$ ($\pm E2$)

Superior performance, cost effectiveness

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

Applications (Conductive)

- ❖ Robot Pad
- ❖ Electric Conductive needed
- ❖ End Effector

Recommend Process Application

- ❖ Deposition (PVD, CVD, PECVD, HDPCVD)
- ❖ Dry etch plasma
- ❖ Dry ashing
- ❖ Diffusion
- ❖ RTP
- ❖ ALD

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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