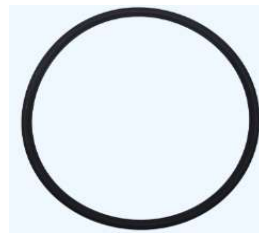


UNW-25



Perfluoroelastomer (FFKM)

UniPol UNW25 is black perfluoroelastomer (FFKM) designed to provide stable and reliable sealing performance in non-direct process chamber applications such as centering rings, gate valves, vacuum pump O-rings, exhaust lines, and scrubber systems. In support of environmental sustainability and to achieve zero PFAS material waste, non-conforming O-rings are reprocessed into filler material through a specialized kneading process. This method effectively eliminates material waste without compromising the compound's quality or sealing performance. A maximum continuous service temperature of 300°C is recommended.



Superior performance, cost effectiveness

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

Features & Benefits

- ❖ Excellent plasma resistance
- ❖ Good compression set
- ❖ Excellent chemical resistance

Applications

- ❖ Exhaust line
- ❖ Scrubber O-rings
- ❖ Slit valves
- ❖ Chemical sealing
- ❖ Windows seals
- ❖ KF fitting seals
- ❖ Isolator valves

Recommend Process Application

- ❖ Dry etch plasma
- ❖ Wet chemical applications
- ❖ Metallization (PVD, CVD, sputtering, evaporation)
- ❖ Deposition (CVD, PECVD, HDPCVD)
- ❖ Remote plasma cleans
- ❖ Dry ashing

Typical Physical Properties

Color	Black
Tensile Strength (Mpa) <small>*ASTM D412(dumbbell specimens)</small>	22.62
Elongation at Break (%) <small>*ASTM D412(dumbbell specimens)</small>	165
100% Modulus (Mpa)	14.9
Shore A Hardness <small>*ASTM D2240 (button sample)</small>	80
Compression Set @ 70hr at 204°C (%) <small>*ASTM D1414 METHOD B (AS568A-214)</small>	24
Max Temperature (°C)	300

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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