

1160W



Perfluoroelastomer (FFKM)

UniPol 1160W is white perfluoroelastomer(FFKM) that targeted specially for harsh plasma environment with cleaning gases and high temperature process also wet chemical process with reactive or corrosive chemicals. It exhibits outstanding thermal stability, excellent performance in Wet, HDPCVD, PECVD, Etching, Ashing, etc. UniPol **1160W** has excellent resistance with corrosive gases like Ozone and fluorine and elastic recovery and is well-suited for both static and dynamic sealing applications. (Chamber lid, Gas line, Bonded slit valve, Shower head seal, etc.) A maximum continuous service temperature of 290°C is suggested.

Typical Physical Properties

Color	White
Tensile Strength (Mpa) *ASTM D412(dumbbell specimens)	19.8
Elongation at Break (%) *ASTM D412(dumbbell specimens)	155
100% Modulus (Mpa)	14.1
Shore A Hardness *ASTM D2240 (button sample)	82
Compression Set @ 70hr at 204°C (%) *ASTM D1414 METHOD B (AS568A-214)	18
Max Temperature (°C)	290
Retraction temperature, Tg	-7.8°C
Linear Coefficient of Thermal Expansion	2.11
Density *ISO 1183	2.152



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

- ❖ Door Seals
- ❖ Lid seals
- ❖ Slit valves
- ❖ Gas inlet seals
- ❖ Windows seals
- ❖ KF fitting seals
- ❖ Isolator valves

Recommend Process Application

- ❖ Door Seals
- ❖ Lid seals
- ❖ Slit valves
- ❖ Gas inlet seals
- ❖ Windows seals
- ❖ KF fitting seals
- ❖ Isolator valves

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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