

# UNF-32

UniPol™

## Perfluoroelastomer (FFKM)

UniPol UNF-32 is violet perfluoroelastomer (FFKM) designed with the concept of applying NFS (Non-fluorosurfactant). It features a fluoropolymer material with organic fillers, which helps minimized particle generation caused by chemical etching. Additionally, UniPol UNF-32 has a heat resistance of up to 320°C, ensuring excellent performance even in high-temperature environments. Its outstanding plasma resistance makes it applicable to a wide range of processes.



## Superior performance, cost effectiveness

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

### Features & Benefits

- ❖ NFS (Non-fluorosurfactant)
- ❖ Excellent Compression set
- ❖ Minimal contamination
- ❖ Excellent Thermal resistance
- ❖ Good NF3 Plasma resistance

### Applications

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

### Recommend Process Application

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

## Typical Physical Properties

Color	Violet
Tensile Strength (Mpa) <small>*ASTM D412(dumbbell specimens)</small>	17.54
Elongation at Break (%) <small>*ASTM D412(dumbbell specimens)</small>	193
100% Modulus (Mpa)	5.4
Shore A Hardness <small>*ASTM D2240 (button sample)</small>	69
Compression Set @ 70hr at 204°C (%) <small>*ASTM D1414 METHOD B (AS568A-214)</small>	13
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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