

Dynarez™

Perfluoroelastomer O-Rings

TM Series

This product series exhibits outstanding physical properties under high-temperature conditions, capable of maintaining performance for continuous use at temperatures exceeding 325°C under normal operations, while offering superior compression set resistance. It is well-suited for applications such as diffusion processes, implant annealing, rapid thermal processing (RTP), and various pipe fittings and valves, with a recommended maximum continuous operating temperature of up to 325°C.

Physical Properties

- ♦ Excellent plasma resistance
- ♦ Ultra-low weight change rate
- ♦ High purity with low particle generation

Recommended Application Points

- ♦ Diffusion
- ♦ Implant Anneal
- ♦ RTP

Ultra-Low Particle Generation

Traditional **FFKM** sealing materials utilize inorganic fillers, such as **barium sulfate** or **titanium dioxide**, to resist plasma erosion. While these fillers protect the polymer and reduce weight loss, they leave behind residual particles after etching, which frequently leads to **particulate contamination**.



Typical Physical Properties		TM-W	TM-B
Color		white	black
Max. Service Temperature		325°C	325°C
Physical Testing	Hardness (JIS-A)	71	70
	Tensile Strength (MPa)	14.5	15.0
	Elongation (%)	150	160
	100% Modulus (MPa)	5.8	6.0
Compression Set	Test Conditions	300°C × 70hr	300°C × 70hr
	Compression Set (%)	32	30