

Material Profile: PFA Encapsulated Viton

Teflon® PFA encapsulation of a Viton™ core provides excellent chemical resistance, a wide temperature range, and durability with low compression set. PFA Encapsulated Viton o-rings are used in various Semiconductor, Chemical Processing and Industrial applications.

Features and Benefits

- High Levels of Resistance to Gas Permeability
- Excellent Chemical Resistance
- Low Friction Levels for Longer Life
- High Physical Properties
- Low Compression Set
- Wide Chemical Compatibility and Resistance

Recommended Applications

- Etch
- PVD, Sputtering and Evaporation
- Epitaxy
- Wet processes



Service Temperature Range: -20 to 204° C

Typical Physical Properties

	PFA	Viton 75 Duro	Viton 75 Duro
Color	Clear	Black	White
Shore A Durometer (slab), ASTM D2240	55	79	77
Elongation % (Dumbbell), ASTM D412	300 (23°C)	233	335.00
Tensile Strength, Psi (Mpa), ASTM D412	4061 (28) (23°C)	1672 (11.52)	1756 (12.1)
Specific Gravity, ASTM D1817	2.15	2.32	2.44
Compression Set:			
22 hrs at 175°C (slab), ASTM D395B	-	4.60%	6.20%
Low Temperature TR-10, °C, ASTM D1329	-	-17	-17
Service Temperature Range, °C	-250° C to 260° C	-5° C to 204° C	-20° C to 204° C

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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