

Material Properties: Simriz® 486 (FFKM)

NOTE - All testing done on AS568-214 size O-rings

NOTE - Certified to USP Class VI. Typical application environments for Simriz 486 O-Rings are aggressive dry process chemistries, including reactive plasmas. Simriz 486 exhibits excellent heat resistance to 220°C. Simriz 486 also offers excellent chemical and solvent resistance.

Original Properties	Simriz 486
Color	White
Hardness, Shore A, ASTM D2240	76
Tensile Strength, MPa, ASTM D1414	18.0
Tensile Strength, psi, ASTM D1414	2610
Ultimate Elongation, %, ASTM D1414	190
100% Modulus, MPa, ASTM D1414	8.5
100% Modulus, psi, ASTM D1414	1232
Compression Set, ASTM D1414 and ASTM D395 Method B, AS568-214 size O-rings, 70 hrs. at 200°C	
% Permanent Set	25
Water Bomb Immersion, ASTM D471, 70 hrs. at 200°C	
Volume Change, %	+5.9
Low Temperature Glass Transition Temperature, ASTM D3418	
DSC Tg, C	-7C
Plasma Testing, Oxygen, 120 min. at 300W	
% Weight Loss	0.41
Particles Generated, 0.3 - 5 micron (x10 ⁶ cm sq)	2300



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