

## Material Properties: Simriz® 487 (FFKM)

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

Original Properties	Simriz 487
Color	Black
Hardness, Shore A, ASTM D2240	79
Tensile Strength, MPa, ASTM D412 Die C	18.7
Tensile Strength, psi, ASTM D412 Die C	2710
% Elongation change, ASTM D412 Die C	170
100% Modulus, Mpa, ASTM D412 Die C	8.6
100% Modulus, psi, ASTM D412 Die C	1245
<b>Low Temperature Glass Transition Temperature, ASTM D3418</b>	
Tg (degrees C)	0
<b>Low Temperature Retraction, ASTM D1329</b>	
TR-10, degrees C	0
<b>Air Aging ASTM D573, 70 hrs. at 250°C</b>	
Hardness change, Shore A, ASTM D2240	0
% Tensile Strength change, ASTM D1414	-13
% Elongation change, ASTM D1414	+24
% Weight loss, ASTM D573	1.0
<b>Compression Set, ASTM D395 Method B and ASTM D1414</b>	
% Permanent Set, 70 hrs. at 275°C	26
% Permanent Set, 300 hrs. at 275°C	44
% Permanent Set, 70 hrs. at 300°C	29
% Permanent Set, 300 hrs. at 300°C	43
<b>Water Bomb Fluid Immersion, ASTM D471, 70 hrs. at 200°C</b>	
% Volume change, ASTM D471	+1.9

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