

Material Properties: Simriz® 134 (FFKM)

Original Properties	Simriz 134
Color	Black
Hardness, Shore A, ASTM D2240	90
Tensile Strength, MPa, ASTM D412 Die C	21.5
Tensile Strength, psi, ASTM D412 Die C	3117
Ultimate Elongation, %, ASTM D412 Die C	160
100 % Modulus, MPa, ASTM D412 Die C	16.6
100 % Modulus, psi, ASTM D412 Die C	2407
Temperature Retraction, ASTM D1329	
TR-10, degrees C	-4
Compression Set, ASTM D1414 and ASTM D395 Method B, AS568-214 size O-rings, 70 hours at 200°C	
% Permanent set	25
Compression Set, ASTM D1414 and ASTM D395 Method B, AS568-214 size O-rings, 1,000 hours at 200°C	
% Permanent set	40
Fluid Immersion - Water Bomb, ASTM D471, 70 hrs. at 200°C	
Volume Change, %	+4.5
Steam Immersion - closed vessel, ASTM D471, 1,000 hrs. at 160°C	
Volume Change, %	+3.0
69% Nitric Acid Immersion, ASTM D471, 70 hrs. at 80°C	
Volume Change, %	+7.0
Methyl Ethyl Ketone Immersion, ASTM D471, 70 hrs. at 80°C	
Volume Change, %	+3.1
Cyclohexyl Amine Immersion, ASTM D471, 70 hrs. at 40°C	
Volume Change, %	+1.5

Compatible with:

Aliphatic and aromatic hydrocarbons, Ketones and esters, Strong acids and bases, Strong amines and corrosion inhibitors