

Material Properties

Low Compression Set FKM (V75LCS, Viton® 75 Duro,)

Material code: 203

With special attention being paid to the quality of the mixture and fabrication quality, we can increase the life-cycle of an O-ring by lowering the compression set. This helps decrease your risk of leakage after extended periods of temperature and compressive forces

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

Original Properties	Specification	Typical Values
Hardness, Shore A, ASTM D2240	75 ±5	76
Tensile Strength, psi, ASTM D412 Die C	1450 min.	1900
Ultimate Elongation, %, ASTM D412 Die C	175 min.	190
Color	Brown	Brown
Air Aging ASTM D573, 70 hrs. at 482°F		
Hardness change, Shore A, ASTM D2240	+10 max	+2
% Tensile Strength change, ASTM D412 Die C	-25 max.	-17
% Elongation change, ASTM D412 Die C	-25 max	-20
Compression Set, ASTM D395 Method B, 22 hrs. at 392°F		
% Permanent set	50 max.	15
Compression Set, ASTM D395 Method B and ASTM D1414, 336 hrs. at 392°F		
% of Original Deflection	40 max.	28.5
ASTM Reference Fuel C Immersion, ASTM D471, 70 hrs. at 74°F		
Hardness change, Shore A, ASTM D2240	±5	-1
% Tensile Strength change, ASTM D412 Die C	-25 max.	-12
% Elongation change, ASTM D412 Die C	-20 max.	-10
% Volume change, ASTM D471	0 to +10	+1.6
Service liquid 101 Immersion (1), ASTM D471, 70 hrs. at 392°F		
Hardness change, Shore A, ASTM D2240	-15 to +5	-5
% Tensile Strength change, ASTM D412 Die C	-40 max.	-24
% Elongation change, ASTM D412 Die C	-20 max.	+5
% Volume change, ASTM D471	0 to +15	+15

Note: Property values should be interpreted as typical rather than minimum value. All technical information and recommendations are presented in good faith, and based upon laboratory and real-world tests believe to be reliable and practical. However, K.C. Seals, Inc. cannot guarantee the accuracy or completeness of this information, and it is the customers' responsibility to determine product suitability to any given application.

