

Material Properties: CV75 (FEPM)

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

Original Properties	CV75
Hardness, Shore A, ASTM D2240	78
Tensile Strength, MPa, ASTM D1414	16.5
Ultimate Elongation, %, ASTM D1414	171
Specific Gravity, g/cc, ASTM D297	1.86
Temperature Retraction, ASTM D1329	
TR-10, degrees F	-7
Heat Aged, ASTM D573, 168 hrs. at 250°C	
Hardness change, Shore A, ASTM D2240	-3
% Tensile Strength change, ASTM D1414	-32
% Elongation change, ASTM D1414	+27
% Weight loss, ASTM D297	1.0
Fluid immersions, ASTM D471 and ASTM D1414, times, temperatures and fluids as shown	
% Volume change, ASTM D471, MEK, 168 hours at 23°C	+25
% Volume change, ASTM D471, Ethyl Acetate, 168 hours at 23°C	+25
% Volume change, ASTM D471, 45% KOH in water, 70 hours at 70°C	+0.3
% Volume change, ASTM D471, 70% Nitric Acid in water, 70 hours at 70°C	+9.7
% Volume change, ASTM D471, Water, 168 hours at 100°C	+1.7
Compression Set, ASTM D395 Method B and ASTM D1414, times and temperatures as noted	
% Permanent Set, 22 hours at 200°C	19
% Permanent Set, 70 hours at 200°C	42

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