

Material Properties

PTFE Lubricated FVMQ (FP80)

Material code: 505

PTFE Lubricated Fluorosilicone

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

Original Properties	AMS-3383	Typical Values
Hardness, Shore A, ASTM D2240	75-85	81
Tensile Strength, psi, ASTM D412 Die C	825 min.	986
Ultimate Elongation, %, ASTM D412 Die C	100 min.	122
Modulus at 100% Elongation, psi, ASTM D412 Die C	600 min.	906
Tear Resistance, lbf/in, ASTM D624 Die B	125 min.	130
Specific Gravity, g/cc, ASTM D297	Report	1.71
Color	Red	Red
Heat Aged, ASTM D573, 70 hrs. at 392°F		
Hardness change, Shore A, ASTM D2240	-5 to +5	+1
% Tensile Strength change, ASTM D412 Die C	-5 max	-3
% Elongation change, ASTM D412 Die C	-20 max.	-17
Compression Set, ASTM D395 Method B, 22 hrs. at 302°F		
% Permanent set	20 max.	17
Compression Set, ASTM D395 Method B, 22 hrs. at 347°F		
% Permanent set	35 max.	30
ASTM Reference Fuel B Immersion, ASTM D471, 70 hrs. at 74°F		
Hardness change, Shore A, ASTM D2240	-15 to 0	-8
% Tensile Strength change, ASTM D412 Die C	-35 max.	-14
% Elongation change, ASTM D412 Die C	-25 max.	-15
% Volume change, ASTM D471	+22 max.	+18.7
Di-ester oil, AMS-3021 Immersion, ASTM D471, 70 hrs. at 302°F		
Hardness change, Shore A, ASTM D2240	0 to -10	-5
% Tensile Strength change, ASTM D412 Die C	-25 max.	-17
% Elongation change, ASTM D412 Die C	-20 max.	0
% Volume change, ASTM D471	0 to +12	+8.1

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.

