

## R.E.A.L. SEAL CO. MATERIAL DATA SHEET COMPOUND # 4190

ORIGINAL PHYSICAL PROPERTIES HARDNESS, SHORE A PTS ULTIMATE TENSILE STRENGTH, PSI ULTIMATE ELONGATION, % MODULUS @ 100%	<u>SPEC</u> 90 +/- 5 1450 MIN 100 MIN	<u>4190</u> 87 1855 128 1048
<u>HEAT RESISTANCE (ASTM D 573)</u> <u>70 HRS @ 100 C</u> CHANGE IN HARDNESS, PTS CHANGE IN TENSILE, % CHANGE IN ELONGATION, %	+15 MAX -20 MAX -40 MAX	+5 -9 -17
<u>COMPRESSION SET (ASTM D 395B)</u> <u>22HRS @ 100C</u> % SET	25 MAX	9
<u>COMPRESSION SET (ASTM D 395B)</u> <u>70HRS @ 100C</u> % SET	25 MAX	13
<u>WATER RESISTANCE (ASTM D 471)</u> <u>70 HRS @ 100 C</u> CHANGE IN HARDNESS, PTS CHANGE IN VOLUME, %	+/- 10 MAX +/- 15 MAX	+1 +1
<u>FUEL RESISTANCE (ASTM D 471)</u> <u>70 HRS @ 23 C IN FUEL A</u> CHANGE IN HARDNESS, PTS CHANGE IN TENSILE, % CHANGE IN ELONGATION, % CHANGE IN VOLUME, %	+/-10 MAX -25 MAX -25 MAX -5 TO +10	+2 -12 -18 +3
<u>FUEL RESISTANCE (ASTM D 471)</u> <u>70 HRS @ 23 C IN FUEL C</u> CHANGE IN HARDNESS, PTS CHANGE IN TENSILE, % CHANGE IN ELONGATION, % CHANGE IN VOLUME, %	+/- 10 MAX -75 MAX -75 MAX +50 MAX	-8 -33 -24 +26

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<u>OIL RESISTANCE (ASTM D 471)</u>		
70 HRS IN OIL #1 @ 100 C		
CHANGE IN HARDNESS, PTS	-5 TO +15	+2
CHANGE IN TENSILE, %	-25 MAX	-7
CHANGE IN ELONGATION, %	-45 MAX	-14
CHANGE IN VOLUME, %	-10 TO +5	-4
<u>OIL RESISTANCE (ASTM D 471)</u> <u>70 HRS IN OIL # IRM903 @ 100 C</u> CHANGE IN HARDNESS, PTS CHANGE IN TENSILE, %	0 TO –20 -45 MAX	-2 -11
CHANGE IN ELONGATION, %	-45 MAX	-18
CHANGE IN VOLUME, %	0 TO +25	+8
COLOR	REPORT	BLACK