



R.E.A.L. SEAL CO.
MATERIAL DATA SHEET
COMPOUND # 1594

<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>SPEC</u>	<u>1594</u>
HARDNESS, SHORE A PTS	70 +/- 5	72
ULTIMATE TENSILE STRENGTH, PSI	2031 MIN	2137
ULTIMATE ELONGATION, %	250 MIN	312
MODULUS @ 100%	----	874
 <u>HEAT RESISTANCE (ASTM D 573)</u>		
<u>70 HRS @ 100 C</u>		
CHANGE IN HARDNESS, PTS	+/-5 MAX	+2
CHANGE IN TENSILE, %	-15 MAX	+2
CHANGE IN ELONGATION, %	-15 MAX	-6
 <u>COMPRESSION SET (ASTM D 395B)</u>		
<u>22HRS @ 100C</u>		
% SET	25 MAX	13
 <u>WATER RESISTANCE (ASTM D 471)</u>		
<u>70 HRS @ 100 C</u>		
CHANGE IN HARDNESS, PTS	+/- 10 MAX	+1
CHANGE IN VOLUME, %	+/- 10 MAX	+1
 <u>FUEL RESISTANCE (ASTM D 471)</u>		
<u>70 HRS @ 23 C IN FUEL A</u>		
CHANGE IN HARDNESS, PTS	+/-10 MAX	+1
CHANGE IN TENSILE, %	-25 MAX	-11
CHANGE IN ELONGATION, %	-25 MAX	-4
CHANGE IN VOLUME, %	-5 TO +10	+4
 <u>FUEL RESISTANCE (ASTM D 471)</u>		
<u>70 HRS @ 23 C IN FUEL B</u>		
CHANGE IN HARDNESS, PTS	0 TO -30	-12
CHANGE IN TENSILE, %	-60 MAX	-34
CHANGE IN ELONGATION, %	-60 MAX	-21
CHANGE IN VOLUME, %	0 TO +40	+22

OIL RESISTANCE (ASTM D 471)

70 HRS IN OIL #1 @ 100 C

CHANGE IN HARDNESS, PTS	-5 TO +10	+2
CHANGE IN TENSILE, %	-25 MAX	-3
CHANGE IN ELONGATION, %	-45 MAX	-3
CHANGE IN VOLUME, %	-10 TO +5	-4

OIL RESISTANCE (ASTM D 471)

70 HRS IN OIL # IRM903 @ 100 C

CHANGE IN HARDNESS, PTS	-10 TO +5	-5
CHANGE IN TENSILE, %	-45 MAX	-10
CHANGE IN ELONGATION, %	-45 MAX	-3
CHANGE IN VOLUME, %	0 TO +25	+9

FLUID RESISTANCE (ASTM D 471)

168 HRS @ 70 C IN LARD

CHANGE IN HARDNESS, PTS	----	+5
CHANGE IN VOLUME, %	----	-5

FLUID RESISTANCE (ASTM D 471)

168 HRS @ 70 C IN MARGARINE

CHANGE IN HARDNESS, PTS	----	+2
CHANGE IN VOLUME, %	----	-5

FLUID RESISTANCE (ASTM D 471)

168 HRS @ 70 C IN ORANGE JUICE

CHANGE IN HARDNESS, PTS	----	-4
CHANGE IN VOLUME, %	----	+2

LOW TEMP BRITTLENESS (ASTM D 2137)

NONBRITTLE AFTER 3 MIN @ -40 C

PASS PASS

COLOR

REPORT BLACK