



R.E.A.L. SEAL CO.
MATERIAL DATA SHEET
COMPOUND # 4270

<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>SPEC</u>	<u>4270</u>
HARDNESS, SHORE A PTS	70 +/- 5	70
ULTIMATE TENSILE STRENGTH, PSI	1500 MIN	2020
ULTIMATE ELONGATION, %	200 MIN	270
 <u>HEAT RESISTANCE (ASTM D 573)</u>		
<u>168 HRS @ 150 C</u>		
CHANGE IN HARDNESS, PTS	+15 MAX	+8
CHANGE IN TENSILE, %	+25 MAX	+15
CHANGE IN ELONGATION, %	-25 MAX	-14
 <u>COMPRESSION SET (ASTM D 395B)</u>		
<u>70HRS @ 125C</u>		
% SET	25 MAX	17
 <u>COMPRESSION SET (ASTM D 395B)</u>		
<u>22HRS @ 150C</u>		
% SET	25 MAX	15
 <u>COMPRESSION SET (ASTM D 395B)</u>		
<u>70HRS @ 150C</u>		
% SET	35 MAX	28
 <u>WATER RESISTANCE (ASTM D 471)</u>		
<u>70 HRS @ 100 C</u>		
CHANGE IN HARDNESS, PTS	+/- 10 MAX	-1
CHANGE IN TENSILE, %	+10 MAX	+3
CHANGE IN ELONGATION, %	-10 MAX	-1
CHANGE IN VOLUME, %	+/- 15 MAX	+4
 <u>FUEL RESISTANCE (ASTM D 471)</u>		
<u>70 HRS @ 23 C IN FUEL A</u>		
CHANGE IN HARDNESS, PTS	+/-10 MAX	0
CHANGE IN TENSILE, %	-25 MAX	+4
CHANGE IN ELONGATION, %	-25 MAX	-1
CHANGE IN VOLUME, %	-5 TO +10	+3

FUEL RESISTANCE (ASTM D 471)

70 HRS @ 23 C IN FUEL B

CHANGE IN HARDNESS, PTS	+/- 10 MAX	-7
CHANGE IN TENSILE, %	-75 MAX	-58
CHANGE IN ELONGATION, %	-75 MAX	-41
CHANGE IN VOLUME, %	+50 MAX	+29

FUEL RESISTANCE (ASTM D 471)

70 HRS @ 23 C IN FUEL C

CHANGE IN HARDNESS, PTS	+/- 10 MAX	-8
CHANGE IN TENSILE, %	-75 MAX	-65
CHANGE IN ELONGATION, %	-75 MAX	-51
CHANGE IN VOLUME, %	+50 MAX	+41

OIL RESISTANCE (ASTM D 471)

70 HRS IN OIL #1 @ 150 C

CHANGE IN HARDNESS, PTS	-5 TO +10	+3
CHANGE IN TENSILE, %	-25 MAX	+16
CHANGE IN ELONGATION, %	-45 MAX	-8
CHANGE IN VOLUME, %	-10 TO +5	-3

OIL RESISTANCE (ASTM D 471)

70 HRS IN OIL #3 @ 150 C

CHANGE IN HARDNESS, PTS	0 TO -20	-5
CHANGE IN TENSILE, %	-45 MAX	+7
CHANGE IN ELONGATION, %	-45 MAX	+1
CHANGE IN VOLUME, %	0 TO +35	+14

OIL RESISTANCE (ASTM D 471)

70 HRS IN ATF @ 150 C

CHANGE IN HARDNESS, PTS	+10 MAX	+7
CHANGE IN TENSILE, %	-45 MAX	+15
CHANGE IN ELONGATION, %	-45 MAX	+14
CHANGE IN VOLUME, %	0 TO +35	+7

OIL RESISTANCE (ASTM D 471)

168 HRS IN SILICONE OIL #1000 @ 150 C

CHANGE IN HARDNESS, PTS	+10 MAX	+5
CHANGE IN TENSILE, %	+/-15 MAX	+9
CHANGE IN ELONGATION, %	-15 MAX	-7
CHANGE IN VOLUME, %	+10 MAX	+2

LOW TEMPERATURE BRITTLINESS (ASTM D 2137)

NON-BRITTLE AFTER 3 MIN @ -40C PASS PASS

COLOR REPORT BLACK