



R.E.A.L. SEAL CO.
MATERIAL DATA SHEET
COMPOUND # 5059

<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>SPEC</u>	<u>5059</u>
HARDNESS, SHORE A PTS	75 +/-5	76
ULTIMATE TENSILE STRENGTH, PSI	2000 MIN	2250
ULTIMATE ELONGATION, %	150 MIN	170
SPECIFIC GRAVITY	REPORT	1.88
 <u>HEAT RESISTANCE (ASTM D 573)</u>		
<u>70 HRS @ 250 C</u>		
CHANGE IN HARDNESS, PTS	+/-5	-1
CHANGE IN TENSILE, %	-45 MAX	-26
CHANGE IN ELONGATION, %	-45 MAX	+38
CHANGE IN WEIGHT, %	REPORT	-1.0
FLAT BEND TEST	NO CRACK	NO CRACK
 <u>FLUID RESISTANCE (ASTM D 471)</u>		
<u>168 HRS IN DISTILLED WATER @ 100 C</u>		
CHANGE IN HARDNESS, PTS	+/- 5	NC
CHANGE IN TENSILE, %	-45 MAX	-28
CHANGE IN ELONGATION, %	-45 MAX	+12
CHANGE IN VOLUME, %	+10 MAX	+3
 <u>FLUID RESISTANCE (ASTM D 471)</u>		
<u>70 HRS IN METHYL ETHYL KETONE @ R.T.</u>		
CHANGE IN HARDNESS, PTS	-15 MAX	-11
CHANGE IN TENSILE, %	-60 MAX	-48
CHANGE IN ELONGATION, %	-60 MAX	-14
CHANGE IN VOLUME, %	+25 MAX	+20
 <u>FLUID RESISTANCE (ASTM D 471)</u>		
<u>70 HRS IN 50/50</u>		
<u>TOLUENE / METHYL ETHYL KETONE @ R.T.</u>		
CHANGE IN HARDNESS, PTS	+/- 5	-1
CHANGE IN TENSILE, %	-45 MAX	-40
CHANGE IN ELONGATION, %	-45 MAX	-12
CHANGE IN VOLUME, %	+25 MAX	+14

FLUID RESISTANCE (ASTM D 471)

70 HRS IN TOLUENE @ R.T.

CHANGE IN HARDNESS, PTS	+/- 15	-10
CHANGE IN TENSILE, %	-45 MAX	-25
CHANGE IN ELONGATION, %	-45 MAX	-6
CHANGE IN VOLUME, %	+/- 10	+5

FLUID RESISTANCE (ASTM D 471)

22 HRS IN XYLENE @ R.T.

CHANGE IN HARDNESS, PTS	+/- 5	-3
CHANGE IN TENSILE, %	-15 MAX	-2
CHANGE IN ELONGATION, %	-15 MAX	-14
CHANGE IN VOLUME, %	-5 TO +10	NC

FLUID RESISTANCE (ASTM D 471)

70 HRS IN SHELL SU-2000 GASOLINE @ R.T.

CHANGE IN HARDNESS, PTS	+/- 10	-8
CHANGE IN TENSILE, %	-25 MAX	-24
CHANGE IN ELONGATION, %	-25 MAX	-12
CHANGE IN VOLUME, %	+/- 10	+6

FLUID RESISTANCE (ASTM D 471)

70 HRS IN 45% POTASSIUM HYDROXIDE @ 70 C

CHANGE IN HARDNESS, PTS	+/- 5	NC
CHANGE IN TENSILE, %	-15 MAX	-1
CHANGE IN ELONGATION, %	-15 MAX	NC
CHANGE IN VOLUME, %	+/- 5	NC

FLUID RESISTANCE (ASTM D 471)

168 HRS IN ACETIC ANHYDRIDE @ 45 C.

CHANGE IN HARDNESS, PTS	+/- 5	-2
CHANGE IN TENSILE, %	-15 MAX	-7
CHANGE IN ELONGATION, %	-15 MAX	-10
CHANGE IN VOLUME, %	+25 MAX	+5

FLUID RESISTANCE (ASTM D 471)

70 HRS IN GLACIAL ACETIC ACID @ 90 C

CHANGE IN HARDNESS, PTS	-15 TO +5	-14
CHANGE IN TENSILE, %	-60 MAX	-43
CHANGE IN ELONGATION, %	-60 MAX	+11
CHANGE IN VOLUME, %	+25 MAX	+12

FLUID RESISTANCE (ASTM D 471)

70 HRS IN 95% SULPHURIC ACID @ 70 C

CHANGE IN HARDNESS, PTS	+/- 10	NC
CHANGE IN TENSILE, %	-25 MAX	-3
CHANGE IN ELONGATION, %	-25 MAX	-4
CHANGE IN VOLUME, %	+/- 10	NC

FLUID RESISTANCE (ASTM D 471)
70 HRS IN 70% NITRIC ACID @ 70 C

CHANGE IN HARDNESS, PTS	+/- 15	-10
CHANGE IN TENSILE, %	-60 MAX	-48
CHANGE IN ELONGATION, %	-60 MAX	+58
CHANGE IN VOLUME, %	+25 MAX	+13

COMPRESSION SET (ASTM D 395B)
22 HRS @ 200 C

% SET	25	18
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COMPRESSION SET (ASTM D 395B)
70 HRS @ 200 C

% SET	35	29
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LOW TEMPERATURE RESISTANCE (ASTM D 1329)

TR-10, C	REPORT	-11
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LOW TEMPERATURE RESISTANCE (ASTM D 2137)

BRITTLE POINT, C	REPORT	-48
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