



**Material Data Sheet  
Compound N70**

<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>SPEC</u>	<u>N70</u>
HARDNESS, SHORE A PTS	70 +/- 5	70
ULTIMATE TENSILE STRENGTH, PSI	1450 MIN	1785
ULTIMATE ELONGATION, %	250 MIN	276
MODULUS @ 100%	----	997
<u>HEAT RESISTANCE (ASTM D 573)</u>		
<u>70 HRS @ 100 C</u>		
CHANGE IN HARDNESS, PTS	+15 MAX	+9
CHANGE IN TENSILE, %	-20 MAX	-15
CHANGE IN ELONGATION, %	-40 MAX	-17
<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	+4
CHANGE IN VOLUME, %	+/- 15 MAX	+3
<u>FUEL RESISTANCE (ASTM D 471)</u>		
<u>70 HRS @ 23 C IN FUEL A</u>		
CHANGE IN HARDNESS, PTS	+/-10 MAX	-2
CHANGE IN TENSILE, %	-25 MAX	-10
CHANGE IN ELONGATION, %	-25 MAX	-5
CHANGE IN VOLUME, %	-5 TO +10	+2
<u>FUEL RESISTANCE (ASTM D 471)</u>		
<u>70 HRS @ 23 C IN FUEL B</u>		
CHANGE IN HARDNESS, PTS	+/- 10 MAX	-8
CHANGE IN TENSILE, %	-75 MAX	-42
CHANGE IN ELONGATION, %	-75 MAX	-27
CHANGE IN VOLUME, %	+50 MAX	+24
<u>OIL RESISTANCE (ASTM D 471)</u>		
<u>70 HRS IN OIL #1 @ 150 C</u>		
CHANGE IN HARDNESS, PTS	-5 TO +10	+3
CHANGE IN TENSILE, %	-25 MAX	-5
CHANGE IN ELONGATION, %	-45 MAX	-4
CHANGE IN VOLUME, %	-10 TO +5	-6
<u>OIL RESISTANCE (ASTM D 471)</u>		
<u>70 HRS IN OIL # IRM903 @ 150 C</u>		
CHANGE IN HARDNESS, PTS	0 TO -20	-6
CHANGE IN TENSILE, %	-45 MAX	-7
CHANGE IN ELONGATION, %	-45 MAX	-6
CHANGE IN VOLUME, %	0 TO +35	+11
<u>LOW TEMP BRITTLINESS (ASTM D 2137)</u>		
<u>NONBRITTLE AFTER 3 MIN @ -40 C</u>	PASS	PASS
<u>COLOR</u>	REPORT	BLACK