



MATERIAL DATA SHEET

Material ref: N2470

Description: 70 duro nitrile

Meets: ASTM D2000 M2BG714 B14EA14EF11EF21EO14EO34/SAE J120 A1 CL1

Typical Properties

	<u>Test Method</u>	<u>Unit of Measure</u>	<u>Nominal Value</u>	<u>Obtained Value</u>
Hardness	ASTM D2240	Shore A	70+/-5	71
Tensile Strength	ASTM D412	N/mm2	>13	14.5
Ult. Elongation	ASTM D412	%	>270	320
Specific Gravity	ASTM D1817	G/cm3	1.24+/-0.03	1.24
Tear Resistance	ASTM D624	N/mm	>60	78
Compression Set 22hrs @ 100C	ASTM 395B	%	<12	9
Compression Set 70hrs @ 100C	ASTM 395B	%	<15	12
Air Aging 70hrs @ 100C	ASTM D573			
Hardness Change		Shore A		+3
Tensile Change		%		+15
Elong. Change		%		-15
Vol. Change		%	0 to -5	Nil
Oil Aging ASTM 1 Oil	ASTM D471 70 hrs @ 100C			
Hardness Change		Shore A		+6
Tensile Change		%		+15
Elong. Change		%		-18
Vol. Change		%		-6.5
Oil Aging ASTM 3 Oil	ASTM D471 70 hrs @ 100C			
Hardness Change		Shore A		-3
Tensile Change		%		+10
Elong. Change		%		-15
Vol. Change		%		+9

Continued on next page



Material ref: N2470

Immersion Test	ASTM D471			
Fuel A	70 hrs @ 23C			
Hardness Change		Shore A		-1
Tensile Change		%		-3
Elong. Change		%		-4
Vol. Change		%		+1
S.G. Change		%		+0.5
Immersion Test	ASTM D471			
Fuel B	70 hrs @ 23C			
Hardness Change		Shore A		-16
Tensile Change		%		-43
Elong. Change		%		-43
Vol. Change		%		+24
S.G. Change		%		+15
Immersion Testing	ASTM D471			
H2O	70 hrs @ 100C			
Hardness Change		Shore A		-4
Tensile Change		%		-2
Elong. Change		%		-10
Vol. Change		%		+5
Immersion Testing	ASTM D471			
Gasoline	46 hrs @ 23C			
Hardness Change		Shore A		-3
Tensile Change		%		-6
Elong. Change		%		-12
Vol. Change		%		+3
S.G. Change		%		+2
Cold Resistance	ASTM D2137A	Degrees C	< -23	-27
TR10	ASTM D1329	Degrees C	< -22	-26
TR50	ASTM D1329	Degrees C	< -15	-18

DATA DERIVED FROM ASTM SLABS AND BUTTONS