



MATERIAL DATA SHEET

Material ref: S4170

Description: 70 duro Silicone

Meets: ASTM D2000 M5GE703 B37EO16EO36F19G11

Typical Properties

	Test Method	Unit of Measure	Nominal Value	Obtained Value
<u>Hardness</u>	ASTM D2240	Shore A	70 +/-5	70
<u>Tensile Strength</u>	ASTM D 412C	psi	650 min	900
<u>Ult. Elongation</u>	ASTM D412C	%	125 min	195
<u>Specific Gravity</u>	ASTM D1817	G/cm3		1.30+/- .03
<u>Heat Resistance</u>				
<u>70 hrs @ 225C</u>	ASTM D573			
Hardness Change		Shore A	+/-10 max	+3.1
Tensile Change		%	-25 max	-22.2
Elong. Change		%	-40 max	-26.5
<u>Compression Set</u>				
<u>70 hrs @ 150C</u>	ASTM 395B	%	25 max	14.4
<u>Oil Aging</u>	ASTM D471			
<u>ASTM 1 Oil</u>	70 hrs @ 150C			
Hardness Change		Shore A	-15 to plus 5	-3.8
Tensile Change		%	-20 max	+14
Elong. Change		%	-15 max	-6.6
Vol. Change		%	+15 max	+4.8
<u>Ozone Resistance</u>	ASTM D1171			
<u>50 pphm @ 20 %</u>			no crack	pass
Elongation				
<u>Low Temp</u>				
<u>Brittleness</u>				
Non Brittle	3 min @ -65F			pass

DATA DERIVED FROM ASTM SLABS AND BUTTONS