

Compound

**4825****CHLOROPRENE  
80 DUROMETER - WHITE  
FDA SANCTIONED MAT'L.****PRODUCT DATA SHEET**

Compound 4825 is an 80 durometer white colored Neoprene elastomer, it is formulated with FDA sanctioned materials.

This compound will meet or exceed the specifications listed and has the following physical properties:

ASTM D2000 4 BC 815 A14 EO14 EO34 G21  
2 BE 815 A14 EO14

**Original Properties**

Modulus @ 100% Elongation	675 psi	4.7 MPa
Tensile Strength	1524 psi	10.5 MPa
Ultimate Elongation	420 %	
Hardness, Shore A	83 Durometer	
Specific Gravity	1.68 grams/cc	
Brittleness Temperature	-29 °F	-34 °C
Tear Resistance, Die B	337 ppi	59.0 kN/m
Tear Resistance, Die C	309 ppi	54.1 kN/m

**Compression Set**

Solid: 22 hrs @ 212°F (100°C)	38.1 %
Solid: 70 hrs @ 212°F (100°C)	49.2 %
Plied: 22 hrs @ 212°F (100°C)	51.8 %
Plied: 70 hrs @ 212°F (100°C)	60.7 %

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 11.6 %
Change - Elongation	+ 9.5 %
Change - Hardness, Shore A	+ 2

**HEAT AGED: 70 hrs @ 257°F (125°C)**

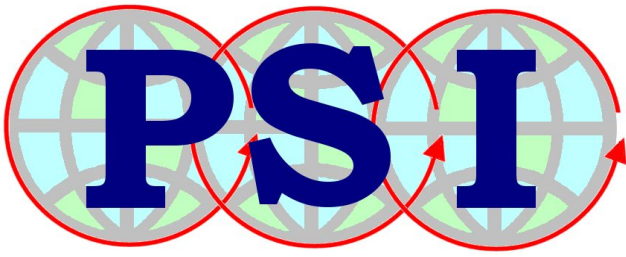
Change - Tensile Strength	+ 15.7 %
Change - Elongation	- 23.8 %
Change - Hardness, Shore A	+ 4

**HEAT AGED: 70 hrs @ 257°F (125°C) Test Tube Method**

Change - Tensile Strength	+ 15.7 %
Change - Elongation	- 23.8 %
Change - Hardness, Shore A	+ 4

**DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)**

Change - Hardness, Shore A	- 15
Change - Volume	+ 19.1 %



Compound

**4825**

**CHLOROPRENE  
80 DUROMETER - WHITE  
FDA SANCTIONED MAT'L.**

**PRODUCT DATA SHEET**

**ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)**

Change - Tensile Strength	- 6.1 %
Change - Elongation	+ 31.0 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 13.6 %

**ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)**

Change - Tensile Strength	- 23.8 %
Change - Elongation	+ 16.7 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 70.3 %

**ASTM OIL #1: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 9.1 %
Change - Elongation	+ 23.8 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 8.4 %

**ASTM OIL #3: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	- 14.8 %
Change - Elongation	- 14.3 %
Change - Hardness, Shore A	- 31
Change - Volume	+ 79.2 %

**Tear Resistance, Method D 624, Die B**

Tear Resistance	337.0 ppi
-----------------	-----------

**Tear Resistance, Method D 624, Die C**

Tear Resistance	309.0 ppi
-----------------	-----------