

Compound

35515POLYURETHANE
50 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET**

Compound 35515 is a 50 durometer black colored general purpose polyUrethane elastomer. It exhibits good physicals.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	143 psi	1.0 MPa
Tensile Strength	2457 psi	16.9 MPa
Ultimate Elongation	600 %	
Hardness, Shore A	50 Durometer	
Specific Gravity	1.28 grams/cc	
Brittleness Temperature	-40 °F	-40 °C
Tear Resistance, Die B	56 ppi	9.8 kN/m
Tear Resistance, Die C	127 ppi	22.2 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	122.8 %
Plied: 22 hrs @ 212°F (100°C)	115.8 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 4.6 %
Change - Elongation	- 23.3 %
Change - Hardness, Shore A	+ 9

HEAT AGED: 70 hrs @ 257°F (125°C)

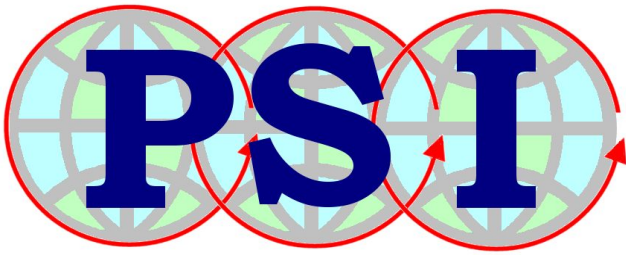
Change - Tensile Strength	- 44.2 %
Change - Elongation	- 31.7 %
Change - Hardness, Shore A	- 1

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

Change - Tensile Strength	- 44.2 %
Change - Elongation	- 31.7 %
Change - Hardness, Shore A	- 1

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

Change - Tensile Strength	- 2.3 %
Change - Elongation	+ 6.7 %
Change - Hardness, Shore A	0
Change - Volume	- 1.9 %



Compound

35515

POLYURETHANE
50 DUROMETER
BLACK COLOR

PRODUCT DATA SHEET

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

Change - Tensile Strength	- 20.9 %
Change - Elongation	- 3.3 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 7.3 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 51.2 %
Change - Elongation	- 30.0 %
Change - Hardness, Shore A	- 1
Change - Volume	- 8.9 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 32.6 %
Change - Elongation	- 21.7 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 6.4 %