



Compound

35715**POLYURETHANE
70 DUROMETER
BLACK COLOR****PRODUCT DATA SHEET**

Compound 35715 is a 70 durometer black colored general purpose polyUrethane elastomer. It exhibits good resistance to petroleum based oils, aliphatic and aromatic fuels.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	333 psi	2.3 MPa
Tensile Strength	5083 psi	35.0 MPa
Ultimate Elongation	550 %	
Hardness, Shore A	68 Durometer	
Specific Gravity	1.31 grams/cc	
Brittleness Temperature	-31 °F	-35 °C
Tear Resistance, Die B	151 ppi	26.4 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	89.2 %
Plied: 22 hrs @ 212°F (100°C)	84.4 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 9.8 %
Change - Elongation	- 36.4 %
Change - Hardness, Shore A	+ 9

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 40.4 %
Change - Elongation	- 40.0 %
Change - Hardness, Shore A	+ 4

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

Change - Tensile Strength	- 40.4 %
Change - Elongation	- 40.0 %
Change - Hardness, Shore A	+ 4

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

Change - Hardness, Shore A	- 24
Change - Volume	+ 27.1 %

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

Change - Tensile Strength	- 10.4 %
Change - Elongation	- 3.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.3 %



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

Change - Tensile Strength	- 24.5 %
Change - Elongation	- 9.1 %
Change - Hardness, Shore A	0
Change - Volume	+ 10.5 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 8.2 %
Change - Elongation	- 26.6 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 1.8 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 2.7 %
Change - Elongation	- 20.0 %
Change - Hardness, Shore A	+ 4
Change - Volume	+ 1.6 %