



Compound

35415**POLYURETHANE
40 DUROMETER
BLACK COLOR****PRODUCT DATA SHEET**

Compound 35415 is a 40 durometer black colored general purpose polyUrethane elastomer. It has excellent physicals and has moderate resistance to heat, petroleum based oils and aromatic fuels.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	108 psi	0.7 MPa
Tensile Strength	3399 psi	23.4 MPa
Ultimate Elongation	667 %	
Hardness, Shore A	38 Durometer	
Specific Gravity	1.23 grams/cc	
Brittleness Temperature	-40 °F	-40 °C
Tear Resistance, Die B	56 ppi	9.8 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	72.6 %
Plied: 22 hrs @ 212°F (100°C)	77.5 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 19.5 %
Change - Elongation	- 27.6 %
Change - Hardness, Shore A	+ 10
Change - Weight	- 6.3 %

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

Change - Tensile Strength	- 6.8 %
Change - Elongation	+ 3.1 %
Change - Hardness, Shore A	+ 3
Change - Volume	- 1.6 %

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

Change - Tensile Strength	- 20.2 %
Change - Elongation	- 4.9 %
Change - Hardness, Shore A	+ 1
Change - Volume	+ 9.2 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 11.9 %
Change - Elongation	- 28.2 %
Change - Hardness, Shore A	+ 8
Change - Volume	- 9.7 %



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ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 19.7 %
Change - Elongation	- 26.8 %
Change - Hardness, Shore A	+ 7
Change - Volume	- 6.8 %