



Compound

21510POLYACRYLATE
50 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET**

Compound 21510 is a 50 durometer black colored general purpose Polyacrylic elastomer. It exhibits good resistance to compression set, heat and petroleum based oils.

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

ASTM D2000 2 DF 510 A26 B16 B36 EO16 EO36

2 DH 510 A26 B16 B36 EO16 EO36

Original Properties

Modulus @ 100% Elongation	294 psi	2.0 MPa
Tensile Strength	1294 psi	8.9 MPa
Ultimate Elongation	340 %	
Hardness, Shore A	55 Durometer	
Specific Gravity	1.25 grams/cc	
Brittleness Temperature	14 °F	-10 °C
Tear Resistance, Die B	132 ppi	23.1 kN/m

Compression Set

Solid: 22 hrs @ 302°F (150°C)	13.5 %
Plied: 22 hrs @ 302°F (150°C)	31.2 %

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 15.4 %
Change - Elongation	- 14.7 %
Change - Hardness, Shore A	+ 5

HEAT AGED: 70 hrs @ 302°F (150°C) Test Tube Method

Change - Tensile Strength	+ 15.4 %
Change - Elongation	- 14.7 %
Change - Hardness, Shore A	+ 5

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

Change - Hardness, Shore A	- 10
Change - Volume	+ 62.2 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 13.7 %
Change - Elongation	- 8.8 %
Change - Hardness, Shore A	0
Change - Volume	- 1.1 %



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ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 3.1 %
Change - Elongation	- 2.9 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 11.8 %