



Compound

21847POLYACRYLATE
80 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET**

Compound 21847 is an 80 durometer black colored general purpose Polyacrylic elastomer. It exhibits good resistance to heat and petroleum based oils.

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

ASTM D2000 3 DF 812 A26 B16 B36 EO15 EO36
5 DF 809 A26 B16 EO15 EO36

3 DH 815 A26 B36 EO16 EO36 F13
5 DH 809 A26 B16 EO16 EO36 F13

Original Properties

Modulus @ 100% Elongation	853 psi	5.9 MPa
Tensile Strength	1653 psi	11.4 MPa
Ultimate Elongation	200 %	
Hardness, Shore A	79 Durometer	
Specific Gravity	1.33 grams/cc	
Brittleness Temperature	9 °F	-13 °C
Tear Resistance, Die B	178 ppi	31.2 kN/m

Compression Set

Solid: 22 hrs @ 302°F (150°C)	30.6 %
Solid: 70 hrs @ 302°F (150°C)	39.0 %
Plied: 22 hrs @ 302°F (150°C)	28.3 %

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 5.1 %
Change - Elongation	- 10.0 %
Change - Hardness, Shore A	+ 3

HEAT AGED: 70 hrs @ 347°F (175°C)

Change - Tensile Strength	- 8.9 %
Change - Elongation	- 25.0 %
Change - Hardness, Shore A	+ 5

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 47.7 %
Change - Elongation	- 60.0 %
Change - Hardness, Shore A	- 10

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

Change - Tensile Strength	+ 5.1 %
Change - Elongation	- 10.0 %
Change - Hardness, Shore A	+ 3



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 2.4 %
Change - Elongation	- 10.0 %
Change - Hardness, Shore A	+ 3
Change - Volume	- 0.7 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 5.1 %
Change - Elongation	- 10.0 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.3 %