



Compound

23844ETHYLENE PROPYLENE
BLACK COLOR - 80 DURO
FDA SANCTIONED MATL.**PRODUCT DATA SHEET**

Compound 23844 is an 80 durometer black colored EPDM elastomer, it is formulated with FDA sanctioned materials. It exhibits excellent resistance to heat, compression set and boiling water. It will remain non brittle at very low temperatures.

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

ASTM D2000 2 AA 815 A13 F17 EA14
2 BA 815 F17
4 BA 815 A14 F17
7 BA 815
6 CA 810 A25 B35 F17 G11 G21 EA14
7 CA 815 A25 B35 F17 F18 G11 G21 EA14
8 CA 815 A25 B35 F17 G11 G21
2 DA 815 A26 B36 F19 G11 G21 EA14
3 DA 815 A26 B36 F19 G11 G21 EA14

Original Properties

Modulus @ 100% Elongation	839 psi	5.8 MPa
Tensile Strength	1998 psi	13.8 MPa
Ultimate Elongation	192 %	
Hardness, Shore A	82 Durometer	
Specific Gravity	1.16 grams/cc	
Brittleness Temperature	< -76 °F	< -60 °C
Tear Resistance, Die B	149 ppi	26.1 kN/m
Tear Resistance, Die C	165 ppi	28.9 kN/m

Compression Set

Solid: 22 hrs @ 158°F (70°C)	7.8 %
Solid: 22 hrs @ 212°F (100°C)	7.2 %
Solid: 22 hrs @ 257°F (125°C)	9.8 %
Solid: 70 hrs @ 212°F (100°C)	9.8 %
Plied: 22 hrs @ 158°F (70°C)	13.4 %
Plied: 22 hrs @ 212°F (100°C)	12.3 %
Plied: 22 hrs @ 257°F (125°C)	13.6 %
Plied: 22 hrs @ 302°F (150°C)	21.9 %

HEAT AGED: 70 hrs @ 158°F (70°C)

Change - Tensile Strength	- 2.9 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0



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HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 1.5 %
Change - Elongation	- 2.6 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 18.5 %
Change - Elongation	- 13.0 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 3.2 %
Change - Elongation	- 2.1 %
Change - Hardness, Shore A	+ 3

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

Change - Tensile Strength	- 18.5 %
Change - Elongation	- 13.0 %
Change - Hardness, Shore A	+ 1

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

Change - Tensile Strength	+ 3.2 %
Change - Elongation	- 2.1 %
Change - Hardness, Shore A	+ 3

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

Change - Tensile Strength	+ 14.6 %
Change - Elongation	- 0.5 %
Change - Hardness, Shore A	0
Change - Volume	- 0.3 %