

Compound

23544ETHYLENE PROPYLENE
BLACK COLOR - 50 DURO
FDA SANCTIONED MATL.**PRODUCT DATA SHEET**

Compound 23544 is a 50 durometer black colored EPDM elastomer, it is formulated with FDA sanctioned materials. It exhibits good physicals. It has good resistance to heat and will remain non brittle at very low temperatures.

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

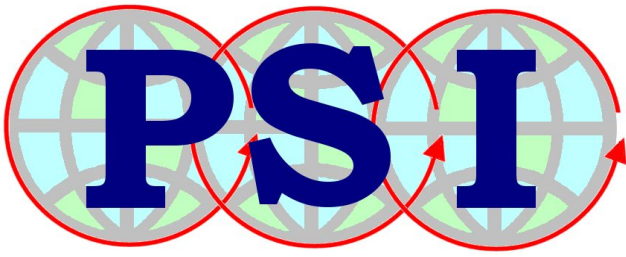
ASTM D2000	2 AA 515 A13 EA14 F17
	3 AA 515 B13 B33 EA14 F17 G21
	4 AA 515 A13 B13 B33 EA14 F17 G21
	5 AA 515 A13 B13 B33 EA14 F17 G21
	2 BA 515 F17
	3 BA 515 A14 B13 F17 F19
	4 BA 515 A14 F17
	5 BA 515 F17 F19
	8 BA 510 B13
	4 CA 515 A25 B44 EA14 F17 F18 F19 G11 G21
	3 CA 510 A25 B44 EA14 F17 F18 G11 G21
	2 DA 515 A26 B36 EA14 F19 G11 G21

Original Properties

Modulus @ 100% Elongation	163 psi	1.1 MPa
Tensile Strength	1836 psi	12.7 MPa
Ultimate Elongation	577 %	
Hardness, Shore A	55 Durometer	
Specific Gravity	1.04 grams/cc	
Brittleness Temperature	< -81 °F	< -63 °C
Tear Resistance, Die B	173 ppi	30.3 kN/m
Tear Resistance, Die C	159 ppi	27.8 kN/m

Compression Set

Solid: 22 hrs @ 158°F (70°C)	25.9 %
Solid: 22 hrs @ 212°F (100°C)	22.5 %
Solid: 22 hrs @ 257°F (125°C)	20.5 %
Solid: 22 hrs @ 302°F (150°C)	25.9 %
Solid: 70 hrs @ 212°F (100°C)	17.3 %
Solid: 70 hrs @ 302°F (150°C)	24.0 %
Plied: 22 hrs @ 158°F (70°C)	27.7 %
Plied: 22 hrs @ 212°F (100°C)	24.9 %
Plied: 22 hrs @ 257°F (125°C)	24.0 %
Plied: 70 hrs @ 212°F (100°C)	20.5 %



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HEAT AGED: 70 hrs @ 158°F (70°C)

Change - Tensile Strength	+ 6.0 %
Change - Elongation	+ 0.7 %
Change - Hardness, Shore A	+ 3

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 5.8 %
Change - Elongation	+ 0.3 %
Change - Hardness, Shore A	+ 3

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 8.3 %
Change - Elongation	+ 6.4 %
Change - Hardness, Shore A	+ 5

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 16.0 %
Change - Elongation	- 1.7 %
Change - Hardness, Shore A	+ 5

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

Change - Tensile Strength	+ 8.3 %
Change - Elongation	+ 6.4 %
Change - Hardness, Shore A	+ 5

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

Change - Tensile Strength	- 16.0 %
Change - Elongation	- 1.7 %
Change - Hardness, Shore A	+ 5

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

Change - Hardness, Shore A	0
Change - Volume	+ 0.4 %