

Compound

**23518**ETHYLENE PROPYLENE  
50 DUROMETER  
BLACK - TEFLON FILLED**PRODUCT DATA SHEET**

Compound 23518 is a 50 durometer black colored EPDM elastomer, it is formulated with Teflon to provide internal lubrication. It exhibits good resistance to heat and 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 520 A13 F17 EA14
	3 AA 520 B13 B33 F17 EA14
	4 AA 520 A13 B13 B33 F17 EA14
	5 AA 520 A13 B13 B33 F17 EA14
	2 BA 520 F17
	3 BA 520 A14 B13 F17 F19
	4 BA 520 A14 F17
	5 BA 520 F17 F19
	3 CA 510 A25 B44 B35 F17 F18 EA14
	4 CA 510 A25 B44 F17 F18 F19 EA14
	2 DA 520 F19 G11 G21 EA14

**Original Properties**

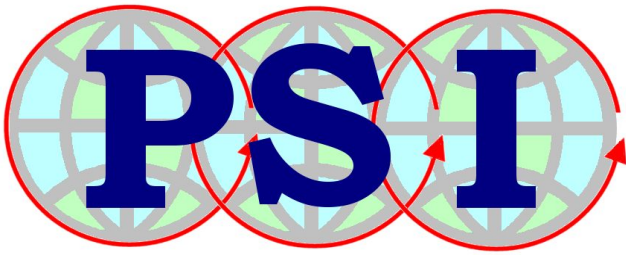
Modulus @ 100% Elongation	137 psi	0.9 MPa
Tensile Strength	2133 psi	14.7 MPa
Ultimate Elongation	638 %	
Hardness, Shore A	53 Durometer	
Specific Gravity	1.07 grams/cc	
Brittleness Temperature	-103 °F	-75 °C
Tear Resistance, Die B	117 ppi	20.5 kN/m

**Compression Set**

Solid: 22 hrs @ 158°F (70°C)	18.4 %
Solid: 22 hrs @ 212°F (100°C)	14.8 %
Plied: 22 hrs @ 158°F (70°C)	22.6 %
Plied: 22 hrs @ 212°F (100°C)	15.3 %
Plied: 22 hrs @ 257°F (125°C)	23.8 %
Plied: 22 hrs @ 302°F (150°C)	44.3 %
Plied: 70 hrs @ 212°F (100°C)	23.5 %

**HEAT AGED: 70 hrs @ 158°F (70°C)**

Change - Tensile Strength	+ 15.6 %
Change - Elongation	+ 5.8 %
Change - Hardness, Shore A	+ 4



Compound

**23518**

ETHYLENE PROPYLENE  
50 DUROMETER  
BLACK - TEFLON FILLED

**PRODUCT DATA SHEET**

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 15.9 %
Change - Elongation	+ 1.9 %
Change - Hardness, Shore A	+ 6

**HEAT AGED: 70 hrs @ 257°F (125°C)**

Change - Tensile Strength	+ 13.0 %
Change - Elongation	+ 3.9 %
Change - Hardness, Shore A	+ 9

**HEAT AGED: 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	+ 8.3 %
Change - Elongation	+ 7.8 %
Change - Hardness, Shore A	+ 12

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

Change - Tensile Strength	+ 13.0 %
Change - Elongation	+ 3.9 %
Change - Hardness, Shore A	+ 9

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

Change - Tensile Strength	+ 8.3 %
Change - Elongation	+ 7.8 %
Change - Hardness, Shore A	+ 12

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

Change - Hardness, Shore A	- 2
Change - Volume	+ 1.7 %