

Compound

23747ETHYLENE PROPYLENE
70 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET**

Compound 23747 is a 70 durometer black colored EPDM elastomer, it is specifically formulated to have a minimal volume change in automotive brake fluids. It is suitable for use with both Silicone based and phosphate ester based brake fluids. It exhibits excellent resistance to heat and compression set. This compound is also RGD (Rapid Gas Decompression) resistant. This compound is plasticizer free.

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

ASTM D2000 2 AA 712 A13 C12 F17 EA14
 3 AA 712 B13 B33 F17 EA14 G21

8 BA 712 B13 C12
2 BA 710 C12 F17

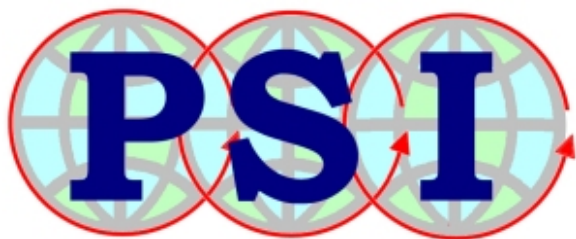
4 CA 720 A25 B35 C32 EA14 F17 F18 F19 G11 G21
5 CA 720 A25 B35 C32 EA14 F17 F18 G11 G21
3 CA 710 A25 B44 B35 C32 EA14 F17 F18 G11 G21

2 DA 720 A26 B36 C32 EA14 F19 G11 G21
3 DA 720 A26 B36 C32 EA14 F19 G11 G21

M 3 DA 714 A26 B36 C32 EA14 F19 G11 G21
M 2 DA 710 A26 B36 C32 EA14 F19 G21

**Original Properties**

Modulus @ 100% Elongation	688 psi	4.7 MPa
Tensile Strength	2,869 psi	19.8 MPa
Ultimate Elongation	232 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.12 grams/cc	
Brittleness Temperature	< -90 °F	< -68 °C
TR-10 Temperature	-45 °F	-43 °C
Tear Resistance, Die B	193.0 ppi	33.8 kN/m
Tear Resistance, Die C	194.0 ppi	34.0 kN/m



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Solid: 22 hrs @ 158°F (70°C)	8.9 %
Solid: 22 hrs @ 212°F (100°C)	6.9 %
Solid: 22 hrs @ 257°F (125°C)	8.6 %
Solid: 22 hrs @ 302°F (150°C)	10.8 %
Solid: 70 hrs @ 212°F (100°C)	9.6 %
Plid: 22 hrs @ 158°F (70°C)	9.3 %
Plid: 22 hrs @ 212°F (100°C)	8.0 %
Plid: 22 hrs @ 257°F (125°C)	11.6 %
Plid: 22 hrs @ 302°F (150°C)	15.0 %
Plid: 70 hrs @ 212°F (100°C)	11.9 %

HEAT AGED: 70 hrs @ 158°F (70°C)

Change - Tensile Strength	+ 1.2 %
Change - Elongation	+ 2.6 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 6.9 %
Change - Elongation	+ 3.9 %
Change - Hardness, Shore A	+ 4

HEAT AGED: 70 hrs @ 257°F (125°C)

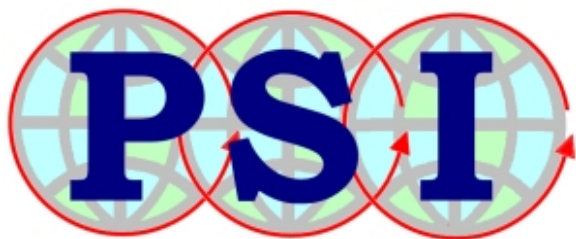
Change - Tensile Strength	+ 4.5 %
Change - Elongation	+ 2.6 %
Change - Hardness, Shore A	+ 5

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 0.7 %
Change - Elongation	- 2.6 %
Change - Hardness, Shore A	+ 7

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

Change - Tensile Strength	+ 4.5 %
Change - Elongation	+ 2.6 %
Change - Hardness, Shore A	+ 5



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Change - Tensile Strength	+ 0.7 %
Change - Elongation	- 2.6 %
Change - Hardness, Shore A	+ 7

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

Change - Hardness, Shore A	0
Change - Volume	- 1.0 %

DOT #3 BRAKE FLUID : AGED 300 hrs @ 248°C (120°F)

Change - Hardness, Shore A	- 1
Change - Volume	+ 4.2 %

DOT #3 BRAKE FLUID : AGED 70 hrs @ 248°F (120°C)

Change - Tensile Strength	- 10.8 %
Change - Elongation	+ 0.9 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.8 %

DOT #4 BRAKE FLUID : AGED 70 hrs @ 248°F (120°C)

Change - Tensile Strength	- 0.5 %
Change - Elongation	+ 2.2 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.7 %

DOT #4 BRAKE FLUID : AGED 300 hrs @ 248°C (120°F)

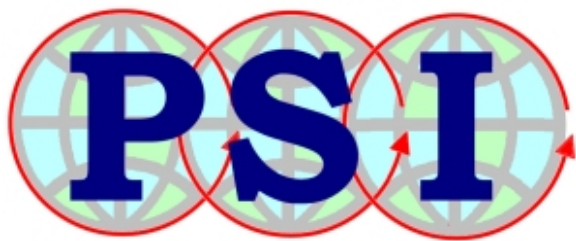
Change - Hardness, Shore A	0
Change - Volume	+ 2.4 %

DOT #5 BRAKE FLUID : AGED 70 HRS @ 248°F (120°C)

Change - Tensile Strength	- 12.8 %
Change - Elongation	- 5.2 %
Change - Hardness, Shore A	0
Change - Volume	+ 3.4 %

DOT #5 BRAKE FLUID : AGED 300 hrs @ 248°F (120°C)

Change - Hardness, Shore A	0
Change - Volume	+ 3.6 %



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SAE COMPATABILITY FLUID : 70 hrs @ 248°F (120°C)

Change - Tensile Strength	- 6.9 %
Change - Elongation	- 1.3 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.8 %

SAE COMPATABILITY FLUID : 300 hrs @ 248°C (120°F)

Change - Hardness, Shore A	0
Change - Volume	+ 2.7 %

Agressive DEF UL 87C: 20000 hrs @ RT (73°F, 23°C)

Change - Volume	+ 0.1 %
Change - Weight	+ 1.1 %