

Compound

13766**ISOBUTYLENE-ISOPRENE
70 DUROMETER
BLACK COLOR****PRODUCT DATA SHEET**

Compound 13766 is a 70 durometer black colored general purpose Butyl elastomer.

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

ASTM D2000 2 AA 715 A13 EA14 F17
3 AA 715 B13 B33 EA14 F17
4 AA 715 A13 B13 B33 EA14 F17
5 AA 715 A13 B13 B33 EA14 F17

2 BA 715 F17
3 BA 715 A14 B13 F17
4 BA 715 A14 F17
5 BA 715 F17
6 BA 715 B13
8 BA 712 B13

Original Properties

Modulus @ 100% Elongation	489 psi	3.4 MPa
Tensile Strength	2090 psi	14.4 MPa
Ultimate Elongation	350 %	
Hardness, Shore A	71 Durometer	
Specific Gravity	1.13 grams/cc	
Brittleness Temperature	-50 °F	-46 °C
Tear Resistance, Die B	247 ppi	43.3 kN/m

Compression Set

Solid: 22 hrs @ 158°F (70°C)	12.1 %
Solid: 22 hrs @ 212°F (100°C)	42.9 %
Plied: 22 hrs @ 158°F (70°C)	19.8 %
Plied: 22 hrs @ 212°F (100°C)	71.1 %

HEAT AGED: 70 hrs @ 158°F (70°C)

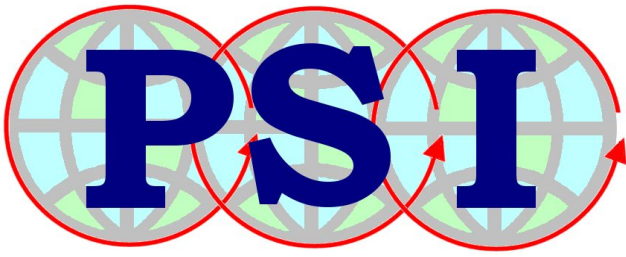
Change - Tensile Strength	0.0 %
Change - Elongation	- 2.9 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 0.2 %
Change - Elongation	- 20.0 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 168 hrs @ 158°F (70°C)

Change - Tensile Strength	- 1.5 %
Change - Elongation	- 16.1 %
Change - Hardness, Shore A	+ 4



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

Change - Hardness, Shore A	0
Change - Volume	+ 1.3 %

SAE PHOSPHATE ESTER FLUID #1A: 168 hrs @ 158°F

Change - Tensile Strength	- 11.7 %
Change - Elongation	- 7.4 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 4.4 %

TRI-BUTYL PHOSPHATE: Aged 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 45.2 %
Change - Elongation	- 37.1 %
Change - Hardness, Shore A	- 19
Change - Volume	+ 19.8 %

TR-10 ASTM D1329 (10% Retraction @ °F)

Temperature	- 70.0 °F
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