

Compound

23744

**ETHYLENE PROPYLENE
70 DUROMETER - BLACK COLOR
FDA SANCTIONED MATERIAL**

PRODUCT DATA SHEET

Compound 23744 is a 70 durometer black colored EPDM rubber formulated with FDA sanctioned materials. It exhibits good resistance to heat and compression set. It also has good low temperature flexibility.

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 G21
 - 4 AA 715 A13 B13 B33 EA14 F17 G21
 - 5 AA 715 A13 B13 B33 EA14 F17 G21

 - 2 BA 715 C12 F17
 - 3 BA 715 A14 B13 C12 F17 F19
 - 4 BA 715 A14 C12 F17
 - 5 BA 715 C12 F17 F18

 - 4 CA 715 A25 B35 EA14 F17 F18 F19 G11 G21
 - 5 CA 715 A25 B35 EA14 F17 F18 G11 G21
 - 3 CA 710 A25 B44 B35 EA14 F17 F18 G11 G21

 - 2 DA 715 A26 B36 EA14 F19 G11 G21
 - 3 DA 715 A26 B36 EA14 F19 G11 G21

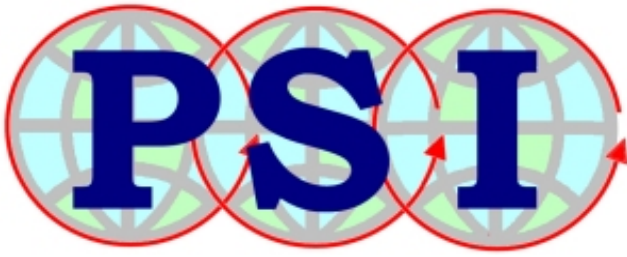
CFR 21 177.2600

Original Properties

Modulus @ 100% Elongation	473 psi	3.3 MPa
Tensile Strength	2155 psi	14.9 MPa
Ultimate Elongation	253 %	
Hardness, Shore A	74 Durometer	
Specific Gravity	1.09 grams/cc	
Brittleness Temperature	< -73 °F	< -59 °C
Tear Resistance, Die B	196 ppi	34.3 kN/m
Tear Resistance, Die C	158 ppi	27.7 kN/m

Compression Set

Solid: 22 hrs @ 158°F (70°C)	6.6 %
Solid: 22 hrs @ 212°F (100°C)	5.2 %
Solid: 22 hrs @ 257°F (125°C)	6.9 %
Solid: 70 hrs @ 212°F (100°C)	6.5 %
Plied: 22 hrs @ 158°F (70°C)	10.6 %
Plied: 22 hrs @ 212°F (100°C)	9.7 %
Plied: 22 hrs @ 257°F (125°C)	10.6 %
Plied: 70 hrs @ 212°F (100°C)	10.6 %



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23744ETHYLENE PROPYLENE
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FDA SANCTIONED MATERIAL**PRODUCT DATA SHEET****HEAT AGED: 70 hrs @ 158°F (70°C)**

Change - Tensile Strength	+ 4.2 %
Change - Elongation	- 2.0 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 10.4 %
Change - Elongation	+ 5.1 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 12.8 %
Change - Elongation	+ 7.1 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 4.6 %
Change - Elongation	- 15.4 %
Change - Hardness, Shore A	+ 3

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

Change - Tensile Strength	+ 12.8 %
Change - Elongation	+ 7.1 %
Change - Hardness, Shore A	+ 2

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

Change - Tensile Strength	- 4.6 %
Change - Elongation	- 15.4 %
Change - Hardness, Shore A	+ 3

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

Change - Tensile Strength	+ 10.1 %
Change - Elongation	- 0.4 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.1 %