



Compound
23761
 ETHYLENE PROPYLENE
 70 DUROMETER - BLACK COLOR
 NSF 61 APPROVED

PRODUCT DATA SHEET

Compound 23761 is a 70 durometer black colored EPDM, it is approved by NSF under the "Drinking Water System Components Program" Standard 61. This compound is formulated to be Chloramine resistant and self lubricating, the formulation uses FDA approved ingredients. This compound exhibits good resistance to heat and compression set. It will remain non brittle at low temperatures.

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

- ASTM D2000 2 AA 720 A13 EA14 F17
- 3 AA 720 B13 B33 EA14 F17 G11
- 4 AA 720 A13 B13 B33 EA14 F17 G21
- 5 AA 720 A13 B13 B33 EA14 F17 G21

- 2 BA 720 F17
- 3 BA 720 A14 B13 F17 F19
- 4 BA 720 A14 F17 F19
- 5 BA 720 F17 F19

- 4 CA 720 A25 B35 EA14 F17 F18 F19 G11 G21
- 5 CA 720 A25 B35 EA14 F17 F18 G11 G21

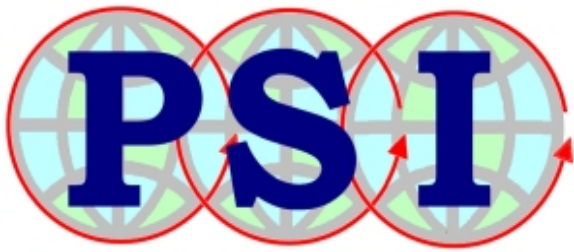
- 2 DA 720 A26 B36 EA14 F19 G11 G21
- 3 DA 720 A26 B36 EA14 F19 G11 G21

This Compound is RoHS Compliant



Original Properties

Modulus @ 100% Elongation	345 psi	2.4 MPa
Tensile Strength	2319 psi	16.0 MPa
Ultimate Elongation	328 %	
Hardness, Shore A	70 Durometer	
Specific Gravity	1.10 grams/cc	
Brittleness Temperature	< -95 °F	< -71 °C
Tear Resistance, Die B	194 ppi	34.0 kN/m
Tear Resistance, Die C	164 ppi	28.7 kN/m



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Solid: 22 hrs @ 158°F (70°C)	11.8 %
Solid: 22 hrs @ 212°F (100°C)	9.6 %
Solid: 22 hrs @ 257°F (125°C)	8.9 %
Solid: 22 hrs @ 302°F (150°C)	11.4 %
Solid: 70 hrs @ 212°F (100°C)	11.4 %
Plied: 22 hrs @ 158°F (70°C)	15.6 %
Plied: 22 hrs @ 212°F (100°C)	11.0 %
Plied: 22 hrs @ 257°F (125°C)	12.1 %
Plied: 22 hrs @ 302°F (150°C)	13.2 %
Plied: 70 hrs @ 212°F (100°C)	13.2 %

HEAT AGED: 70 hrs @ 158°F (70°C)

Change - Tensile Strength	+ 4.2 %
Change - Elongation	+ 1.8 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 4.1 %
Change - Elongation	+ 2.4 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 5.3 %
Change - Elongation	+ 6.4 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	0.0 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 3

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

Change - Tensile Strength	+ 5.3 %
Change - Elongation	+ 6.4 %
Change - Hardness, Shore A	+ 1



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Change - Tensile Strength	0.0 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 3

Residual Chlorine 50 ppm: 4 Weeks @ 158°F (70°C)

Change - Hardness, Shore A	- 3
Change - Volume	+ 4.3 %
Change - Weight	+ 4.1 %

NITRIC ACID: Aged 70 hrs @ RT (70°F, 23°C)

Change - Tensile Strength	- 24.9 %
Change - Elongation	- 15.9 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 9.4 %

SODIUM HYPOCHLORITE: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 40.9 %
Change - Elongation	- 33.5 %
Change - Hardness, Shore A	0
Change - Volume	0.0 %

SODIUM HYDROXIDE: Aged 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 2.1 %
Change - Elongation	- 7.6 %
Change - Hardness, Shore A	0
Change - Volume	- 0.3 %

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

Temperature	- 60.0 °F
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