Compound

4403

CHLOROPRENE
40 DURO - BLACK COLOR
OZONE RESISTANT

PRODUCT DATA SHEET

Compound 4403 is a 40 durometer black colored Neoprene elastomer, it is formulated for ozone resistance. It exhibits good physicals and excellent low temperature flexibility.

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

ASTM D2000 2 BC 415 A14 B14 EO14 F17
5 BC 415 A14 B14 EO14 F17

2 BE 415 A14 B14 EO14 F17

MIL-R-6855 CLASS 2 TYPE A & B GRADE 40

Original Properties

Modulus @ 100% Elongation		110 psi		0.8	MPa
Tensile Strength		1547 psi		10.7	MPa
Ultimate Elongation		655 %			
Hardness, Shore A		42 Durometer			
Specific Gravity		1.29 grams/cc			
Brittleness Temperature	<	-75 °F	<	-59	°C
Tear Resistance, Die B		83 ppi		14.5	kN/m
Tear Resistance, Die C		122 ppi		21.4	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	10.9 %
Solid: 70 hrs @ 212°F (100°C)	6.0 %
Plied: 22 hrs @ 212°F (100°C)	17.5 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 10.4 %
Change - Elongation	- 5.2 %
Change - Hardness, Shore A	+ 6
Change - Weight	- 8.0 %

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 8.3 %
Change - Elongation	- 50.7 %
Change - Hardness, Shore A	+ 23

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

Change - Hardness, Shore A	+ 1
Change - Volume	+ 13.2 %

Presure Seals, Inc.
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South Windsor, CT 06074
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ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 29.4 %
Change - Elongation	- 22.4 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.6 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 72.9 %
Change - Elongation	- 59.2 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 49.7 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 9.2 %
Change - Elongation	- 6.9 %
Change - Hardness, Shore A	- 2
Change - Volume	- 8.3 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	- 68.7 %
Change - Elongation	- 56.8 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 68.3 %

OZONE: 168 hrs @ 100 mPA ASTM D1149,D518 METHOD B	
NO CRACKING	PASS

OZONE: 168 hrs @ 50 mPA - ASTM D1149,D518 METHOD A	
NO CRACKING	PASS

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