Request a Quote

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Marco Compound # B1081

70 Durometer, Black, UL Approved Buna-N
Technical Datasheet

Features:

- UL-157 approved for gasoline, kerosene, LP gas, Naphta, natural gas and anhydrous ammonia.
- Good/Excellent resistance to compression set and tear/abrasion.
- Good/Excellent resistance to many petroleum oils/greases, hydraulic fluids, alcohol, ambient water, silicone greases, Di-ester base lubricants and ethylene-glycol based fluids.

Meets The following specifications ASTM D2000 2BF 715 B14 B34
2BG 715 B14 B34 EA14 EF11 EF21
5BG 715 A14 B14 B34 EO14
4BK 715 B14 B34 EF11 EF21

This Compound is RoHS Compliant

Original Properties

Modulus @ 100% Elongation	553	psi	3.8	MPa
Tensile Strength	1,644	psi	11.3	MPa
Ultimate Elongation	367	%		
Hardness, Shore A	74	Durometer		
Specific Gravity	1.34	grams/cc		
Brittleness Temperature	-22	°F	-30	°C
TR-10 Temperature	-18	°F	-28	°C
Tear Resistance, Die B	331	ppi	58.0	kN/m
Tear Resistance, Die C	232	ppi	40.6	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	8.6	%
Solid: 22 hrs @ 257°F (125°C)	11.0	%
Solid: 70 hrs @ 212°F (100°C)	12.2	%
Plied: 22 hrs @ 212°F (100°C)	14.6	%
Plied: 22 hrs @ 257°F (125°C)	17.6	%
Plied: 70 hrs @ 212°F (100°C)	18.7	%

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 25.4 %
Change - Elongation	- 29.7 %
Change - Hardness, Shore A	+ 14

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HEAT AGED: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	+ 30.1 %
Change - Elongation	- 50.4 %
Change - Hardness, Shore A	+ 18

HEAT AGED: 70 hrs @ 212°F (100°C) Test Tube	
Change - Tensile Strength	+ 25.4 %
Change - Elongation	- 29.7 %
Change - Hardness, Shore A	+ 14

HEAT AGED: 70 hrs @ 257°F (125°C) Test Tube Method	
Change - Tensile Strength	+ 30.1 %
Change - Elongation	- 50.4 %
Change - Hardness, Shore A	+ 18

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 9.7 %
Change - Elongation	- 18.0 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 6.8 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 0.8 %
Change - Elongation	- 6.5 %
Change - Hardness, Shore A	0
Change - Volume	- 0.6 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 11.8 %
Change - Elongation	- 17.7 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 13.5 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 15.2 %
Change - Elongation	- 27.5 %
Change - Hardness, Shore A	- 14
Change - Volume	+ 24.6 %

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ASTM OIL #1 (IRM 901): 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 21.8 %
Change - Elongation	- 24.5 %
Change - Hardness, Shore A	+ 13
Change - Volume	- 8.2 %

ASTM OIL #1 (IRM 901): 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	+ 29.0 %
Change - Elongation	- 40.9 %
Change - Hardness, Shore A	+ 14
Change - Volume	- 8.6 %

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	+ 18.5 %
Change - Elongation	- 52.9 %
Change - Hardness, Shore A	+ 15
Change - Volume	- 9.0 %

ASTM OIL #3 (IRM 903): 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 13.4 %
Change - Elongation	- 15.0 %
Change - Hardness, Shore A	+ 9
Change - Volume	- 3.4 %

ASTM OIL #3 (IRM 903): 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	+ 24.0 %
Change - Elongation	- 33.2 %
Change - Hardness, Shore A	+ 9
Change - Volume	- 2.3 %

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	+ 23.0 %
Change - Elongation	- 43.1 %
Change - Hardness, Shore A	+ 9
Change - Volume	- 2.2 %

HEXANE : AGED 70 hrs @ RT (70°F, 23°C)	
Change - Tensile Strength	- 7.3 %
Change - Elongation	- 8.2 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.3 %

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METHANOL : AGED 70 hrs @ 148°F (65°C)	
Change - Tensile Strength	- 13.1 %
Change - Elongation	- 16.9 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 13.2 %

UNLEADED GAS (89 Octane) : AGED 70 hrs @ RT (23°C)	
Change - Tensile Strength	- 15.2 %
Change - Elongation	- 20.4 %
Change - Hardness, Shore A	- 14
Change - Volume	+ 20.2 %