

Specification: ASTM D2000 M3DA710 A25 A26 B35 B36 B44 C32 EA14 F19 Z1 Z2

Z1: DOT #3 Oil Test, Z2: Dot #4 Oil Test

Cure System: Peroxide

Recommended Service Temperature: -65 °F to 302 °F (-54 °C to 150 °C)

NOTE: All testing done on slabs and buttons. Material formerly known as E868.

Original Properties	Specification	E70
Hardness, Shore A	70±5	73
Tensile Strength, psi	1450 (min)	2404
Ultimate Elongation, %	200 (min)	251
Modulus @ 100% Elongation, psi		620
Modulus @ 200% Elongation, psi		1682
Tear Strength, kgf/cm		36
Specific Gravity		1.155
Color		Black

Heat Resistance - A25 , ASTM D 865 (70 hrs @ 125 °C)

Hardness Change, points		0
Tensile Strength Change, %		-8
Elongation Change, %		-4
Volume Change, %		0.0

Heat Resistance - A26 , ASTM D 865 (70 hrs @ 150 °C)

Hardness Change, points	+10	+1
Tensile Strength Change, %	-20	-7
Elongation Change, %	-20	-4
Volume Change, %		-0.8

Compression Set, % - B35, ASTM D 395 Method B (22 hrs @ 125 °C)

Permanent Set, %		11
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Compression Set, % - B36, ASTM D 395 Method B (22 hrs @ 150 °C)

Permanent Set, %	25 (max)	15
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Compression Set, % - B44, ASTM D 395 Method B (70 hrs @ 100 °C)

Permanent Set, %		13
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Ozone Resistance - C32, ASTM D 1171 Method B

No Crack	Pass	Pass
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Fluid Resistance, Water - EA14, ASTM D 471 (70 hrs @ 100 °C)

Hardness Change, points		-3
Tensile Strength Change, %		+4
Elongation Change, %		+2
Volume Change, %	±5	+1.2

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.



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Low Temperature Resistance - F19, ASTM D 2137 Method A, 9.3.2 (Non-brittle after 3 min @ -55 °C)	Specification Pass	E70 Pass
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Fluid Resistance, DOT #3 Oil (CPC), Z1 (70 hrs @ 125 °C)		
Hardness Change, points		-5
Tensile Strength Change, %		-4
Elongation Change, %		+2
Volume Change, %		+2.0

Fluid Resistance, DOT #3 Oil (CPC), Z1 (70 hrs @ 150 °C)		
Hardness Change, points		-5
Tensile Strength Change, %		-6
Elongation Change, %		+5
Volume Change, %		+2.7

Fluid Resistance, DOT #4 Oil (CPC), Z1 (70 hrs @ 125 °C)		
Hardness Change, points		-4
Tensile Strength Change, %		-1
Elongation Change, %		+2
Volume Change, %		+3.6

Fluid Resistance, DOT #4 Oil (CPC), Z1 (70 hrs @ 150 °C)		
Hardness Change, points		-5
Tensile Strength Change, %		+1
Elongation Change, %		+6
Volume Change, %		+4.2

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