

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 (E868)
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
Compression Set, % - B36, ASTM D 395 Method B (22 hrs @ 150 °C)		
Permanent Set, %	25 (max)	15
Compression Set, % - B44, ASTM D 395 Method B (70 hrs @ 100 °C)		
Permanent Set, %		13
Ozone Resistance - C32, ASTM D 1171 Method B		
No Crack	Pass	Pass
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

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Low Temperature Resistance - F19, ASTM D 2137 Method A, 9.3.2 (Non-brittle after 3 min @ -55 °C)	Specification	E70
	Pass	Pass

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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