



## Marco Compound # V1220

### Technical Datasheet

#### Common Names:

FKM, Fluoropolymer, Fluorel®, Viton®

Material: FKM 75 FDA Brown, NSF51/ NSF61

—Conforms to Sanitary 3A Specification No# 1803 Class II & FDA (white list)

Specification: Sanitary 3A Specification No# 1803 Class II

#### Original Properties:

	<u>Required</u>	<u>Result</u>
Hardness, Shore A, pts	75±5	74
Tensile Strength, psi, min (C3.1)	1100	1879
Elongation, min, % (C3.1)	100	319
Tear Resistance, ASTM D624 (Die C), Kg/cm		29
Modulus at 100%, ASTM D412, psi		590
Modulus at 200%, ASTM D412, psi		1273
Modulus at 300%, ASTM D412, psi		1792
Specific Gravity		2.136

#### C2.1.1 Low Fat Tolerance Absorption, 70 h at 22C, ASTM D471 (8% Milk Fat + 92% Distilled Water)

Hardness Change, pts, Shore A, max	+/-15	-6
Tensile Strength Change, %		-22
Elongation Change, %		+53
Volume Change, %, max	+/-25	+1.2
Weight Change, %, max	+/-25	+1

#### C2.2.1 100% Milk Fat Absorption, 70 h at 22C, ASTM D471

Hardness Change, pts, Shore A, max	+/-5	-4
Tensile Strength Change, %		-30
Elongation Change, %		+37
Volume Change, %, max	+/-10	+0.4
Weight Change, %, max	+/-10	+0.4

#### C2.2.2 Distilled Water Absorption, 70 h at 22C, ASTM D471

Hardness Change, pts, Shore A, max	+/-5	-3
Tensile Strength Change, %		-27
Elongation Change, %		+40
Volume Change, %, max	+/-10	+1.2
Weight Change, %, max	+/-10	+0.6

C2.2.3	<b><u>Heat Aged: 100 h at 166C, ASTM D573</u></b>		
	Hardness Change, pts, Shore A, max	+/-10	+1
	Tensile Strength Change, %		+1
	Elongation Change, %		-3
	Volume Change, %		-0.8
	Weight Change, %		0
D4.6	<b><u>Nitric Acid, 22 h at 82C, ASTM D471</u></b>		
	Hardness Change, pts, Shore A, max	+/-10	-8
	Tensile Strength Change, %		-23
	Elongation Change, %		+43
	Volume Change, %, max	+/-15	+6
	Weight Change, %, max	+/-15	+2.6
D4.8	<b><u>Alkaline Cleaner, 22 h at 82C, ASTM D471</u></b>		
	Hardness Change, pts, Shore A, max	+/-10	-7
	Tensile Strength Change, %		-16
	Elongation Change, %		+58
	Volume Change, %, max	+/-10	+2.5
	Weight Change, %, max	+/-10	+1.5
D4.9	<b><u>Chlorine Sanitizer, 22 h at 21C, ASTM D471</u></b>		
	Hardness Change, pts, Shore A, max	+/-5	-2
	Tensile Strength Change, %		-14
	Elongation Change, %		+16
	Volume Change, %, max	+/-10	+0.4
	Weight Change, %, max	+/-10	+0.2

\* The above test result is based on the test slab/ test button. The actual parts will be different with this test result.

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