



Revision: A

CONTACT US

MATERIAL: VMQ COMPOUND: S8000

**SPECIFICATION:** ASTM D2000 M2GE705 A19 B37 EA14 EO16 EO36 F19 G11 Z1

COLOR: Rust

**CERTIFICATIONS:** FDA CFR 21 177.2600, 3A Sanitary Standard Class IV

ADDITIONAL NOTES: -

Spec	Original Physical and Mechanical Properties	<u>Requirements</u>	Result
	Hardness, Shore A Pts, ASTM D 2240	70±5	73
	Tensile Strength, MPa (psi) min., ASTM D 412	5.0 (725)	5.6 (805)
	Ultimate Elongation, % min., ASTM D412	150	238
	Modulus @ 100%, MPa (psi), ASTM D 412	-	3.7 (531)
	Density, (Mg/m³)	-	1.31
A19	Heat Resistance (ASTM D 573) 70 h @ 225°C	Requirements	Result
	Change in Hardness, Pts	10	0
	Change in Tensile, %	-25	-6
	Change in Elongation, % max.	-30	-29
	Change in Weight, % max.	-	-0.4
B37	Compression Set (ASTM D 395, Method B) 22 h @ 175°C	<u>Requirements</u>	<u>Result</u>
	% of Original Deflection, max.	25	16.3
EA14	Water resistance (ASTM D471) 70 h @ 100°C	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±5	-1
	Change in Tensile, %	-	-7
	Change in Elongation, %	-	-4
	Change in Volume, %	±5	0.5
EO16	Fluid Resistance (ASTM D 471) 70 h in IRM901 Oil @ 150°C	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-10~0	-8
	Change in Tensile, % max.	-30	12

Note: the values listed above are only valid for material samples prepared for laboratory test purposes as documented in the standards listed above

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	Change in Elongation, % max.	-30	-5
	Change in Volume, %	0~+15	4.6
EO36	Fluid Resistance (ASTM D 471) 70 h in IRM903 Oil @ 150°C	Requirements	<u>Result</u>
	Change in Hardness, Pts	-	-21
	Change in Tensile, % max.	-	-6
	Change in Elongation, % max.	-	-14
	Change in Volume, % max.	60	35.2
F19 G11	Low- Temperature Brittleness (ASTM D2137, Method C) 3 minutes @ -55°C Nonbrittle	Requirements Pass	Result Pass
GII	Tear Resistance, (ASTM D624 Die B)	<u>Requirements</u>	<u>Results</u>
C2.1.1	Tear Strength, kN/m, min.	5	13.7
C2.1.1	Low Fat Tolerance Absorption (ASTM D 471) 22 h @ 70°C Change in Hardness, Pts	Requirements ±20	<u>Result</u> -2
	Change in Tensile, %	±20	-2 -3
	Change in Elongation, %	-	13
	Change in Weight, %	±60	0.6
	Change in Volume, %	±75	0.3
	Change in Visual Appearance	-	Pass
C2.2.1	Milk Fat Absorption (ASTM D 471) 22 h @ 70°C	Requirements	Result
	Change in Hardness, Pts	±10	-3
	Change in Tensile, %	-	0
	Change in Elongation, %	-	21
	Change in Weight, %	±40	1.6

C2.2.2	Distilled Water Absorption (ASTM D 471) 22 h @ 70°C	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±10	-2

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Change in Volume, %

Change in Visual Appearance

1.1

**Pass** 

±60



C2.2.3

S8000

Revision: A

-	-3
-	10
±20	0.7
±25	0.7
-	Pass
<u>Requirements</u>	Result
±10	0
-	5
-	8
-	0.4
	Pass
	±20 ±25 - Requirements

D4.7	Fluid Resistance (ASTM D471) 22 h in Phosphoric Acid @ 82°C	<b>Requirements</b>	<u>Result</u>
	Change in Hardness, Pts	±10	-1
	Change in Tensile, %	-	-3
	Change in Elongation, %	-	11
	Change in Weight, %	±20	0.9
	Change in Volume, %	±25	0.2
	Change in Visual Appearance	-	Pass

D4.8	Fluid Resistance (ASTM D471) 22 h in Alkaline Cleaner @ 82°C	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±10	-3
	Change in Tensile, %	-	-6
	Change in Elongation, %	-	7
	Change in Weight, %	±20	0.8
	Change in Volume, %	±25	0.6
	Change in Visual Appearance	-	Pass

D4.9	Fluid Resistance (ASTM D 471) 22 h in Chlorine Sanitizer @ 21°C	Requirements	<u>Result</u>
	Change in Hardness, Pts	±10	-2
	Change in Tensile, %	-	-3
	Change in Flongation. %	_	9

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Change in Volume, %

**S8000** 

Revision: A

0.3

±25

Change in Weight, % ±20 0.5

Change in Visual Appearance - Pass

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