



Revision: A

CONTACT US

MATERIAL: EPDM COMPOUND: E8061

SPECIFICATION: ASTM D 2000 M4CA714 A25 B35 EA14 F17 G21 Z1 Z2 Z3

COLOR: Black

CERTIFICATIONS: FDA CFR 21 177.2600, 3A Sanitary Standard 18 Class III

ADDITIONAL NOTES: -

Spec	Original Physical and Mechanical Properties	Requirements	<u>Result</u>
	Hardness, Shore A Pts, ASTM D 2240	70±5	73
	Tensile Strength, MPa (psi) min., ASTM D 412	14.0 (2031)	15.3 (2215)
Z3	Ultimate Elongation, % min., ASTM D 412	150	180
	Modulus @ 100%, MPa (psi), ASTM D 412	-	5.3 (771)
	Density, Mg/m ³	-	1.13
A25	Heat Resistance (ASTM D 865) 70 h @ 125°C	Requirements	Result
	Change in Hardness, Pts max.	10	1
	Change in Tensile, % max.	-20	-7
	Change in Elongation, % max.	-40	-5
	Change in Weight, %	-	0.1
Z1	Heat Resistance (ASTM D 573) 70 h @ 125°C	Requirements	<u>Result</u>
	Change in Hardness, Pts	±15	2
	Change in Tensile, %	±30	-6
	Change in Elongation, % max.	-50	-9
	Change in Weight, %	-	-0.3
B35	Compression Set (ASTM D 395, Method B) 22 h @ 125°C	<u>Requirements</u>	<u>Result</u>
	% of Original Deflection, max.	70	14.1
Z2	Compression Set (ASTM D 395, Method B) 22 h @ 100°C	Requirements	Result
	% of Original Deflection, max.	<u>kequirements</u> 60	8.6
	70 Or Original Deficetion, max.	UU	0.0

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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EA14	Water Resistance (ASTM D 471) 70 h @ 100°C Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Volume, %	Requirements ±5	Result -1 -6 -1 1.2
	change in volume, 70	±3	1.2
F17	Low Temperature Resistance (ASTM D 2137, Method C) 3 m @ -40°C Nonbrittle	Requirements Pass	<u>Result</u> Pass
G21	Tear Strength (ASTM D 624, Die C) Tear Strength, kN/m, min.	Requirements 26	Result 30.2
C2.1.1	Low Fat Tolerance Absorption (ASTM D 471) 22 h @ 70°C Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, % Change in Visual Appearance	<u>#20</u> ±25 ±25 -	Result -1 12 3 0.5 0.2 Pass
C2.2.1	Milk Fat Absorption (ASTM D 471) 22 h @ 70°C Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, % Change in Visual Appearance	Requirements ±10 - - ±25 ±25 -	Result -10 -31 -14 8.0 9.6 Pass

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C2.2.2	Distilled Water Absorption (ASTM D 471) 22 h @ 70°C	Requirements	<u>Result</u>		
	Change in Hardness, Pts	±10	-1		
	Change in Tensile, %	-	10		
	Change in Elongation, %	-	3		
	Change in Weight, %	±15	0.5		
	Change in Volume, %	±15	0.2		
	Change in Visual Appearance	-	Pass		
C2.2.3	Air Aging Stability (ASTM D 573) 166 h @ 70°C	Requirements	<u>Result</u>		
	Change in Hardness, Pts	±10	0		
	Change in Tensile, %	-	4		
	Change in Elongation, %	-	-3		
	Change in Weight, %	-	0		
	Change in Visual Appearance	-	Pass		
D4.7	Fluid Resistance (ASTM D 471) 22 h in Phosphoric Acid @ 82°C Change in Hardness, Pts	Requirements ±10	Result -1		
D4.7	Change in Hardness, Pts Change in Tensile, %		<u> </u>		
D4.7	Change in Hardness, Pts Change in Tensile, % Change in Elongation, %	±10	-1		
D4.7	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, %	±10	-1 9		
D4.7	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, %	±10 - -	-1 9 2		
D4.7	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, %	±10 - - ±15	-1 9 2 0.5		
D4.7	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, %	±10 - - ±15	-1 9 2 0.5 0.3		
	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, % Change in Visual Appearance Fluid Resistance (ASTM D 471) 22 h in Alkaline Cleaner @ 82°C Change in Hardness, Pts	±10 ±15 ±15 -	-1 9 2 0.5 0.3 Pass		
	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, % Change in Visual Appearance Fluid Resistance (ASTM D 471) 22 h in Alkaline Cleaner @ 82°C Change in Hardness, Pts Change in Tensile, %	±10 ±15 ±15 Requirements	-1 9 2 0.5 0.3 Pass		
	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, % Change in Visual Appearance Fluid Resistance (ASTM D 471) 22 h in Alkaline Cleaner @ 82°C Change in Hardness, Pts Change in Tensile, % Change in Elongation, %	±10 ±15 ±15 Requirements ±10	-1 9 2 0.5 0.3 Pass		
	Change in Hardness, Pts Change in Tensile, % Change in Elongation, % Change in Weight, % Change in Volume, % Change in Visual Appearance Fluid Resistance (ASTM D 471) 22 h in Alkaline Cleaner @ 82°C Change in Hardness, Pts Change in Tensile, %	±10 ±15 ±15 Requirements ±10 -	-1 9 2 0.5 0.3 Pass		

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Change in Visual Appearance

Pass



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D4.9	Fluid Resistance (ASTM D 471) 22 h in Chlorine Sanitizer @ 21°C	Requirements	Result
	Change in Hardness, Pts	±10	0
	Change in Tensile, %	-	8
	Change in Elongation, %	-	4
	Change in Weight, %	±15	0.2
	Change in Volume, %	±15	0
	Change in Visual Appearance	-	Pass

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