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MATERIAL: FKM COMPOUND: V8028

SPECIFICATION: ASTM D 2000 M2HK710 A1-10 B38 EF31 EO78 Z1 Z2

COLOR: Brown

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

ADDITIONAL NOTES: -

Spec	Original Physical and Mechanical Properties	<u>Requirements</u>	<u>Result</u>
Z1	Hardness, Shore A Pts, ASTM D 2240	75±5	74
	Tensile Strength, MPa (psi) min., ASTM D 412	10.0 (1450)	11.5 (1667)
	Ultimate Elongation, % min., ASTM D412	175	212
	Modulus @ 100%, MPa (psi), ASTM D 412	-	5.9 (859)
	Density, (Mg/m³)	-	2.13
A1-10	Heat Resistance (ASTM D 573) 70 h @ 250°C	Requirements	Result
	Change in Hardness, Pts max.	10	4
	Change in Tensile, % max.	-25	-5
	Change in Elongation, % max.	-25	-24
	Change in Weight, % max.	-	-3
B38	Compression Set (ASTM D 395, Method B) 22 h @ 200°C	<u>Requirements</u>	<u>Result</u>
	% of Original Deflection, max.	50	14.2
EF31	Fluid Resistance (ASTM D 471) 70 h in ASTM Fuel C @ 23°C	<u>Requirements</u>	Result
	Change in Hardness, Pts	±5	-4
	Change in Tensile, % max.	-25	-16
	Change in Elongation, % max.	-20	-18
	Change in Volume, %	0~+10	4.2





EO78	Fluid Resistance (ASTM D 471) 70 h in Liquid No. 101 @ 200°C	Requirements	Result
	Change in Hardness, Pts	-15~+5	-12
	Change in Tensile, % max.	-40	-25
	Change in Elongation, % max,	-20	-14
	Change in Volume, %	0~+15	14.1
Z2	Fluid Resistance (ASTM D 471) 70 h in Fluid No. 2, Blend 7700 @		
(EO88)	<u>200°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-15~+5	-13
	Change in Tensile, % max.	-40	-37
	Change in Elongation, % max.	-20	-18
	Change in Volume, % max.	25	24.3
C2.1.1	Low Fat Tolerance Absorption (ASTM D 471) 22 h @ 70°C C	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±6	-3
	Change in Tensile, %	-	-22
	Change in Elongation, %	-	8
	Change in Weight, %	±5	0.5
	Change in Volume, %	±5	0.1
	Change in Visual Appearance	-	Pass
C2.2.1	Milk Fat Absorption (ASTM D 471) 22 h @ 70°C	Requirements	Result
9	Change in Hardness, Pts	±5	<u>-1</u>
	Change in Tensile, %	<u> -5</u>	-22
	Change in Elongation, %	_	7
	Change in Weight, %	±5	0.4
	Change in Volume, %	±5	0.4
	Change in Visual Appearance	<u>-</u> 5	Pass
	202		1 433





C2.2.2	Distilled Water Absorption (ASTM D 471) 22 h @ 70°C	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±5	-2
	Change in Tensile, %	-	-20
	Change in Elongation, %	-	7
	Change in Weight, %	±5	0.5
	Change in Volume, %	±5	0.5
	Change in Visual Appearance	-	Pass
C2.2.3	Air Aging Stability (ASTM D 573) 166 h @ 100°C	Requirements	<u>Result</u>
	Change in Hardness, Pts	±10	-1
	Change in Tensile, %	-	10
	Change in Elongation, %	-	-17
	Change in Weight, %	-	0.1
	Change in Volume, %	-	0.1
	Change in Visual Appearance	-	Pass
D4.6	Fluid Resistance (ASTM D471) 22 h in Nitric Acid @ 82°C	Requirements	Result
2	Change in Hardness, Pts	±5	-2
	Change in Tensile, %	-	-17
	Change in Elongation, %	-	14
	Change in Weight, %	±5	1.3
	Change in Volume, %	±5	2.4
	Change in Visual Appearance	-	Pass
D4.7	Fluid Resistance (ASTM D471) 22 h in Phosphoric Acid @ 82°C	Doguinomonto	Dogult
D4.7	Change in Hardness, Pts	<u>Requirements</u> -	Result -1
	Change in Tensile, %	-	-1 -21
	Change in Fensile, % Change in Elongation, %	-	-21 8
	Change in Weight, %	-	8 0.5
	Change in Volume, %	-	0.5
	Change in Volume, % Change in Visual Appearance	-	0.9 Pass
	Change in visual Appearance	-	Pd55





D4.8	Fluid Resistance (ASTM D471) 22 h in Alkaline Cleaner @ 82°C	Requirements	<u>Result</u>
	Change in Hardness, Pts	±5	-2
	Change in Tensile, %	-	-23
	Change in Elongation, %	-	4
	Change in Weight, %	±5	0.5
	Change in Volume, %	±5	0
	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	±5	-1
	Change in Tensile, %	-	-4
	Change in Elongation, %	-	1
	Change in Weight, %	±5	0.2
	Change in Volume, %	±5	-0.3
	Change in Visual Appearance	-	Pass