

Mr. Mark Brooks
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Enon, OH 45323

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Report No. : TEC011426P-1
Date : November 1, 2011
Subject : Evaluation of RAW F2 Rubber Material per
3-A Sanitary Standard Testing Procedure No. 18-03, Class III

Dear Mr. Brooks:

Specimens of tan rubber material, designated RAW F2, were submitted for testing in accordance with 3-A Sanitary Standard Procedure No.18-03 (latest revision). This procedure subjects the samples to accelerated use-simulating conditions to determine their acceptance as contact surfaces in the production, processing, and handling of milk or milk products.

The sample was tested as a Class III material, which is specified as suitable for product contact at temperatures up to 120 °F (49 °C), and cleaning and bactericidal treatment temperatures up to 180 °F (82 °C). The attached two-page form details the results of the testing. The results indicated that the rubber material, designated RAW F2, met the criteria for a Class III material, as specified in 3-A Sanitary Standard Procedure No. 18-03. The scope of this testing does not include verification of Section D5 of the Standard, regarding compliance with FDA regulations and/or FD&C Act requirements

If you have any questions concerning the contents of this report, please contact me. It should be noted that it is our policy to retain components and sample remnants for 30 days from November 1, 2011 after which time they will be discarded. If you would like to make alternate arrangements for disposition of the material, please let me know. This project shall be governed exclusively by the General Terms and Conditions of Sale and Performance of Testing Services by Stork Technimet, Inc. a Wisconsin business corporation d.d. November 4, 2008. In no event shall Stork Technimet, Inc. be liable for any consequential, special or indirect loss or any damages above the cost of the work.

Respectfully submitted,

Electronic Original



Kimberly A. Hoffman
Associate Materials Scientist

Test Result Form
Class III Requirements

Company: Stork Technimet, Inc.			
Customer: Seepex			
Stork Technimet File No.: TEC011426P-1		Date: October 31, 2011	
Compound: RAW F2		Product Class: Class III	
Color: Tan			
Properties	Unit	Specification	Measured
Tensile Strength	psi	1000 MIN	1813
Elongation at Break	%	100 MIN	685
Hardness Shore A Durometer	PTS	---	73
CHANGE IN PROPERTIES AFTER AIR AGING FOR: 166 HOURS AT 70 °C			
Change in Hardness	PTS	± 10 MAX	+4
Visual Change		Observation: No change	
CHANGE IN PROPERTIES AFTER IMMERSION FOR: 22 HOURS AT 70 °C			
Immersion Material: Butter Oil			
Change in Volume	%	± 25 MAX	-2
Change in Mass	%	± 25 MAX	-2
Change in Hardness	PTS	± 10 MAX	+1
Visual Change		Observation:	
CHANGE IN PROPERTIES AFTER IMMERSION FOR: 22 HOURS AT 70 °C			
Immersion Material: Distilled Water			
Change in Volume	%	± 15 MAX	+5
Change in Mass	%	± 15 MAX	+4
Change in Hardness	PTS	± 10 MAX	-7
Visual Change		Observation: No change	

Test Result Form
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Properties	Unit	Specification	Measured
Stork Technimet File No.: TEC011426P-1			
CHANGE IN PROPERTIES AFTER IMMERSION FOR: 22 HOURS AT 82 °C			
Immersion Material: Phosphoric Acid			
Change in Volume	%	± 15 MAX	+5
Change in Mass	%	± 15 MAX	+3
Change in Hardness	PTS	± 10 MAX	-5
Visual Change		Observation: No change	
CHANGE IN PROPERTIES AFTER IMMERSION FOR: 22 HOURS AT 82 °C			
Immersion Material: Alkaline Cleaner			
Change in Volume	%	± 15 MAX	+6
Change in Mass	%	± 15 MAX	+5
Change in Hardness	PTS	± 10 MAX	-5
Visual Change		Observation: No change	
CHANGE IN PROPERTIES AFTER IMMERSION FOR: 22 HOURS AT 23 °C			
Immersion Material: Chlorine Sanitizer			
Change in Volume	%	± 15 MAX	0
Change in Mass	%	± 15 MAX	+1
Change in Hardness	PTS	± 10 MAX	-1
Visual Change		Observation: No change	
TESTED BY: SMD and KAH		DATE: October 18 – 29	
APPROVED BY: KAH		DATE: October 31, 2011	