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AMERICAN SOCIETY FOR QUALITY CONTROLSubmitted by: SunX Professional Skin Protection
3613 Blossom Trail
Plano, TX 75074

Date: April 17, 2000

Attn: Brad Bierman

Report No.: 29636

REPORTLab Sample No.

29636

SunX Sunblock lotion, SPF30 (#9822971770) was contacted with rubber linemans gloves (Type 1, Class 2, ANSI/ASTM D120) to determine if any significant changes occur in the tested properties of the gloves.

PROCEDURETensile Properties

The outer-surface of the glove was rubbed with a liberal amount of sunscreen, wiped off, allowed to stand thusly for 4 hours and then washed with mild soap and warm water. The above procedure was repeated once a day for 3 days. On the fourth day, samples were cut from the cuff areas of the gloves and tested as reported.

Area Swell

Test samples were measured after 24 hour soaks at 75°F in the sunscreen.

AC Electrical Proof Tests

Glove samples exposed to the sunscreen as per tensile property samples but were not cut up. Test was performed at 20 KV @ 3 minutes, maximum proof test current was recorded during last 20 seconds of the test. Pass/Fail criteria is based on a maximum proof test current of 18 mA as dictated by the Class 2 and 16" glove length. Clearance from cuff to water line was set at 3 inches. Test was repeated after 16 hour soak in distilled water.

RESULTS

Tensile Properties (ASTM D412, Avg. of 5)

	<u>Control</u>	<u>SunX</u>
Tensile Strength, psi		
Initial	3003	-
After 3 day Exposure	-	2938
% Change from Initial	-	-2.2%

Tensile Properties (ASTM D412, Avg. of 5)(Continued)

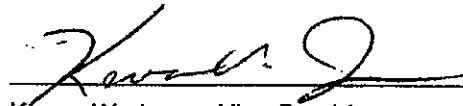
	<u>Control</u>	<u>SunX</u>	
Initial Aged 7 days @ 158°F	3084	-	
After 3 day Exposure and 7 day aging @ 158°F	-	2873	
% Change from Initial, aged	+2.7%	-4.3%	
Ultimate Elongation, %			
Initial	633	-	
After 3 day Exposure	-	613	
% Change from Initial	-	-3.2%	
Initial Aged 7 days @ 158°F	630	-	
After 3 day Exposure and 7 day aging @ 158°F	-	619	
% Change from Initial, aged	-0.5%	-2.2%	
500% Modulus, psi			
Initial	1014	-	
After 3 day Exposure	-	1004	
% Change from Initial	-	-1.0%	
Initial aged 168 hrs @ 158°F	1062	-	
After 3 day Exposure and aged 7 days @ 158°F	-	1141	
% Change from Initial, aged	+4.7%	+12.5%	
Area Swell, % (ASTM D471, Avg. of 3)			
24 hour soak	-	0.0%	
AC Electrical Proof Test (ASTM D120)			
A)			
Initial - Glove #	<u>1</u>	<u>2</u>	<u>3</u>
Leakage at 20 KV, mA	11.1	11.3	11.0
Pass/Fail	Pass	Pass	Pass
Breakdown Voltage, KV	38.6 (FO)	39.1 (FO)	37.8 (FO)
SunX-SPF30 3 day Exposure - Glove #	<u>1</u>	<u>2</u>	<u>3</u>
Leakage at 20 KV, mA	11.8	12.0	12.2
Pass/Fail	Pass	Pass	Pass
Breakdown Voltage, KV	40.3 (FO)	40.8 (FO)	39.2 (FO)
B) 16 hour Distilled Water Soak Test			
Initial - Glove #	<u>1</u>	<u>2</u>	<u>3</u>
Leakage @ 20 KV, mA	10.8	11.2	11.1
Pass/Fail	Pass	Pass	Pass
Breakdown Voltage, KV	38.4 (FO)	39.3 (FO)	38.0 (FO)

SunX-SPF30 3 day Exposure followed by 16 hour Soak Test

Glove #	<u>1</u>	<u>2</u>	<u>3</u>
Leakage @ 20 KV, mA	11.1	11.6	11.5
Pass/Fail	Pass	Pass	Pass
Breakdown Voltage, KV	39.7 (FO)	40.8 (FO)	382 (FO)

Note: (FO) Flashover indicates that the arc occurred over, but not through the glove.

DALLAS LABORATORIES, INC.



Kévan W. Jones, Vice President

Analyst: KJ/GF
KWJ:td