



United States
Department of
Agriculture

Food Safety
and Inspection
Service

Regulatory Programs
Building 306, BARC-East
Beltsville, MD 20705

January 8, 1993

Mr. Steven C. Beresh
Proto Corporation
10500 47th Street North
Clearwater, FL 34622

Dear Mr. Beresh:

We have received the necessary information to complete our evaluation of several of your PVC jacketing materials.

Your PVC jacketing materials listed below are chemically acceptable for use in slaughtering, processing, transporting, or storage areas in incidental contact with meat or poultry food product prepared under Federal inspection.

LoSmoke Black	LoSmoke Blue	LoSmoke Red
LoSmoke Violet	LoSmoke Yellow	LoSmoke Gray
LoSmoke Orange	LoSmoke Green	LoSmoke Brown

This acceptance is valid so long as the composition and use of the substance remain as described to us. This letter does not constitute acceptance for materials made wholly or partly from substances accepted herein. No endorsement of the substance or of any concomitant claims is intended. It is the responsibility of the user and/or supplier to determine any regulatory limitations which may apply to their use of this substance.

Sincerely,

John M. Damaré, Chief
Compounds and Packaging Branch
Product Assessment Division



10500 47th Street North • Clearwater, Florida 34622

(813) 573-4665

PVC Jacketing Materials - Xenon Arc Accelerated Weathering Study 2/94 to 9/1/94

Accelerated weathering resistance test methods are very difficult to correlate with the results of end use experience, because there is no such thing as standard outdoor environment which will always give the same results and at the same time be representative of all outdoor aging. The various factors affecting the weathering resistance are location, duration and intensity of sunlight, temperature, moisture, humidity, rain, snow, pollution and many other things.

The most important cause of degradation in most outdoor environments is the UV portion of sunlight, especially in the range of 295-350 nm, peaking at 320nm for PVC. Xenon-arc lamps are used for solar simulation in the spectral region below 500nm. The xenon arc test weather-ometer is a light exposure apparatus with and without water for exposure of plastics. The ΔE value from this represents weathering resistance in form of color change development. ΔE value of less than 1 practically can not be visualized by naked eyes, therefore would be considered excellent especially after 1000 hours (175 days) under xenon-arc lamps representing approximately five years outdoors.

Note: In the month of Feb 94, an outside lab. was supplied with our LoSmoke sheet samples identifying the cap side to be tested for xenon arc study. They provided the weathering test results on 09/01/94.

Proto: Xenon Arc Accelerated Weathering Study 09/01/94 Proto Corp.

25 mil
Exposure
Time (hours)

	L	a	b	ΔE
0	96.13	-0.68	0.68	-
500	96.33	-0.62	1.02	0.39
1000	96.17	-0.80	1.49	0.83
1500	96.40	-0.79	1.36	0.53
2000	96.43	-0.81	1.30	0.70
2500	96.43	-0.84	1.21	0.62
3000 HOURS	96.30	-0.84	1.07	0.46

30 mil
Exposure
Time (hours)

	L	a	b	ΔE
0	96.13	-0.68	0.9	-
500	96.26	-0.63	1.16	0.28
1000	96.11	-0.81	1.72	0.83
1500	96.28	-0.80	1.25	0.60
2000	96.38	-0.79	1.38	0.53
2500	96.39	-0.77	1.30	0.47
3000 HOURS	96.22	-0.81	1.15	0.28

ALL ΔE VALUES
ARE LESS THAN 1.
COLOR CHANGE (OR
YELLOWING) WOULD
REMAIN UNNOTICED
TO THE NAKED EYE.
GLOSS FINISH WILL
GRADUALLY DOSE,
JUST AS PAINT DOES.

THESE RECEIPTS ARE DISPLAYED IN THEIR ENTIRETY FOR THE PURPOSE OF SECURING PRODUCT ACCEPTANCE FROM DULY CONSTITUTED APPROVAL AUTHORITIES, UNDER THE FREEDOM OF INFORMATION ACT. THEIR DISCLOSURE HERE, SHALL NOT BE CONSTRUED AS PUBLICITY OR ADVERTISING BY THE AGENCIES INVOLVED, OR PROTO CORP.



United States
Department of
Agriculture

Food Safety
and Inspection
Service

Washington, D.C.
20250

September 10, 1993

Mr. Bill Herbst

Dear Mr. Herbst:

Equipment such as your #120 Slipknot Pipe Wrap Tape, also known as Proto White Vinyl Tape is chemically acceptable and may be used in federally inspected meat and poultry plants without a formal letter of acceptance from this office provided:

1. It creates no adverse conditions or safety hazards.
2. It is installed, maintained, and operated in a manner acceptable to the inspector in charge.

This letter does not imply compliance with Department of Labor Occupational Safety and Health Standards. In addition, it should not be considered an approval of processing methods. Any departure from established procedures must be cleared with the Slaughter Inspection Standards and Procedures Division or the Processed Products Inspection Division.

Sincerely,

Robert V. Williams
Industrial Specialist
Equipment Branch
Facilities, Equipment and Sanitation Division
Science and Technology



United States
Department of
Agriculture

Food Safety
and Inspection
Service

Regulatory Programs
Building 306, BARC-East
Beltsville, MD 20705

April 1, 1993

Mr. Steven C. Beresh
Proto Corporation
10500 47th Street North
Clearwater, FL 34622

Dear Mr. Beresh:

We have received the necessary information to complete our evaluation of your jacketing material.

Your LoSmoke White is chemically acceptable for use in slaughtering, processing, transporting, or storage areas in incidental contact with meat or poultry food product prepared under Federal inspection.

This acceptance is valid so long as the composition and use of the substance remain as described to us. This letter does not constitute acceptance for materials made wholly or partly from substances accepted herein. No endorsement of the substance or of any concomitant claims is intended. It is the responsibility of the user and/or supplier to determine any regulatory limitations which may apply to their use of this substance.

Sincerely,

John M. Damaré, Chief
Compounds and Packaging Branch
Product Assessment Division