

Mr. J. W. Schilling
Carbide and Carbon Chemicals Company
South Charleston, West Virginia

May 15, 1956

Mr. J. W. Biddle
Mr. A. J. Dragonette
Mr. M. A. Pedderson
Mr. W. F. Hemperly
Mr. G. G. Hissler
Mr. D. G. Kay
Mr. M. F. Robertson
Dr. H. F. Smyth, Jr.

Rigid Vinyl Sheetings

Dear Mr. Schilling:

I would like to comment as follows on the proposed extraction studies on this material. In respect to the colorants in question, the Food and Drug Administration is satisfied relative to their content of lead, arsenic, etc., so that since they are colors certified by the F.D.A., we think a satisfactory extraction study can be accomplished by colorimetric procedures which would show the transfer of the colors from the film to the extraction media. It would seem advisable to pursue the extraction study in this manner rather than testing for the heavy metals alone. Transfer of the colors to the media would demonstrate the extraction of the whole molecules of the dyes.

By copy of this letter I am asking Dr. Smyth to comment further on this should he consider it advisable.

Very truly yours,

MEDICAL DIRECTOR

Thomas W. Hale, M. D.

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BAKELITE COMPANY

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RIVER ROAD, BOUND BROOK, NEW JERSEY

To (Name) **Mr. J. V. Schilling**
 Company **Carbide & Carbon Chemicals Co.**
 Location **South Charleston, W. Va.**

Date **May 14, 1956**Originating Dept. **817-95**

Answering letter date

Copy to **Mr. J. W. Biddle - SC**
Mr. A. J. Dragonette - 9 E. 41st
Mr. W. F. Hemperly - BB
Mr. G. G. Himmler - BB
Mr. D. C. Kay - 9 E. 41st
Dr. T. W. Nale - 300 Madison
Mr. H. F. Robertson - 9 E. 41st
Dr. H. F. Smyth, Jr. - Mellon Inst.

Subject **Extraction Studies on Packaging**
Grade Rigid Vinyl Sheetting.

File: **2.0444**Via: **Airmail**

Dear Mr. Schilling:

Enclosed are samples of three vinyl rigid sheet materials under consideration for use in packaging poultry. These are the materials referred to by Mr. Robertson in his May 11 letter to you, and we understand that you have agreed to run extraction tests on them. Subsequent to the time Mr. Robertson wrote his letter we located the two recommended colorants in our laboratory and were, therefore, able to supply immediately samples of the current formulation and the two proposed alternatives. These samples, then, represent all of the materials under consideration.

The materials and formulations are as follows:

	<u>4199-80B</u>	<u>4199-75A</u>	<u>4199-75B</u>
	(VCAB-3400		
	Yellow 523)		
VYNS	96.05	96.05	96.05
Magnesium epoxystearate	3.00	3.00	3.00
Zinc stearate	0.20	0.20	0.20
External D&C Yellow #3 Lake	0.50	-	-
D&C Yellow #1 Lake	-	0.50	-
D&C Yellow #5 Lake	-	-	0.50
Cosmetic grade TiO ₂	0.25	0.25	0.25

The three colorants are, as indicated, lakes of dyes. For your information the dyes and substrata are as follows:

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BAKELITE COMPANY
A DIVISION OF UNION CARBIDE AND CARBON CORPORATION
BUND BROOK, N. J.

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May 14, 1956

Mr. J. W. Schilling
C&CCC - So. Chas.

Subject: Extraction Studies on
Packaging Grade Rigid Vinyl
Sheeting.

#3 lake: monosodium salt of 5-hydroxy-3-methyl-4-phenylazo-1-p-sulfophenylpyrazole on alumina.

#1 lake: disodium salt of 2,4-dinitro-1-naphthol-7-sulfonic acid on alumina.

#5 lake: trisodium salt of 3-carboxy-5-hydroxy-1-p-sulfophenyl-4-p-sulfophenylazopyrazole on zirconium.

In this matter we are concerned with demonstrating that lead, arsenic, the substrata, and heavy metals are not extracted in significant amounts.

As Mr. Robertson indicated, speed is of great importance in this study. We will very much appreciate a reply as soon as possible.

Thank you for your cooperation.

Very truly yours,

H. A. Feddersen
H. A. Feddersen.

HAF:vlk
Enc.

RECEIVED

MAY 15 1956

INDUSTRIAL MEDICAL &
TOXICOLOGY DEPARTMENT

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