

INTER-OFFICE MEMO

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TO	H.B. Carr	AT	Burlington	DATE	June 21, 1973
FROM	P.W. Kanzler	AT	Burlington	COPY TO	R.J. Eckman P. Cavason H.R. Horton R.A. Lojewski W.E. Stewart File
SUBJECT	MONTHLY PROGRESS REPORT June, 1973				

E. ROUTINE ANALYSIS

A. Raw Material Evaluation

Ammonium Persulfate - Assay	1
IR Scan	15
Avirol POL-I-N	
Cloud Point	2
% FAS	2
Bottle Polymerization	
(4 runs @ 4 bottles each)	4
RVCN Storage	
Phenol in Copolymer Storage	2
VCM Tank Cars	
Light End Impurities	5
Styrene Monomer Evaluation	4
MVAc Tank Car Impurities	5
Lauroyl Peroxide - Assay, A(0)	18

B. In-Process Analyses

Trace Oxygen, Compressor	1	18
" "	2	19
" "	3	19
" "	4	16
" "	5	19
" "	6	17
COD AT		19
COD FCE		19
% FAS AT		4
% FAS FCE		4

C. Finished Product

Bound Acetate	53
Gel Count - Brabender Extruder	48
Haze and Gloss	35

300

Total from Section 11	75
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TOTAL	375
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11. SPECIAL TESTING

1. Raw Materials

a. Gelatin

(1) Atlantic Gelatin

As a result of the high ferro magnetic counts found in the recent shipments from this vendor, P. Arseneau (sales representative) visited in Burlington on 6/14/73. During the meeting, we were informed that a tight raw material market has resulted in a short supply of gelatin, reducing the choice of low ferro magnetic contamination lots.

(2) Hormel

In search of an alternate supplier of gelatin, samples of an "A" gelatin type were submitted by Hormel for quality control evaluation in Burlington. The ferro magnetic count showed about 55 and is considerably lower than this type contamination found in Atlantic gelatin for the latest shipments. During a meeting with a Hormel representative, J. Molinari, on 6/21/73 it was agreed that a sample of "A" gelatin type will be sent to the Pilot Plant (M.S. Wilkenfeld). Upon successful completion of this evaluation, the gelatin will be evaluated in Burlington via IOP.

b. Methocel

A 2,000-lb shipment of 65HG 50 cps Methocel was found to contain a very high level of ferro magnetic contamination. As a result, a meeting has been called on 6/29/73 to discuss the quality problem with representatives from Dow. All attempts will be made to return this material to the vendor.

c. Sodium Lauryl Sulfate

A trial shipment of Henkel POL-L-S has been received in Burlington. While the viscosity checked out high (300 cps, spec. max. 275 cps), the other parameters tested were within specification. An evaluation will be performed as soon as possible.

d. 2-EHP, PPC

A trial shipment of this raw material was received for plant evaluation. Assay results showed this material at mid-range (41.5%).

2. In-Process

a. T-991

In support of IOP 991, individual batch samples of this resin

COLORITE 014683

type were analyzed for bound acetate. Six batches tested showed a bound acetate range of 15.7 to 17.3 with a mean of 16.8 (one batch low out of spec with 15.7).

b. Filter Cloth Evaluation

The monofilament cloth type NY76M2 has been installed on #1 filter and is running very satisfactory.

c. VCM Material Balance Study

Work in this effort was continued on a limited basis due to blending resin runs scheduled. In addition, LOP 982 support (steam stripping of high molecular weight resins) was continued.

d. Filtration of Latex

High temperature batches resulted in sloppy latex in 1738 resin. Again, leaf filtrations were used to evaluate individual batches for definition of filterability.

e. Reflux Condensers

Pitting noted on the reflux condensers resulted in leaks of VCM into cooling water. Analyses of VCM in water were performed on all "B" plant reflux condensers to check for dissolved VCM. As a result, condensers from towers 9 and 10 were removed for repairs.

3. Finished Product

a. 250-3 (General Cable)

A rail car shipment (CATX 50616) of this resin type showed poor DIDP dry blend characteristics. Evaluation of samples from the rail car showed high levels of polymer fines. It is suspected that blending resin cross-contamination is the cause for the poor dry blend behavior.

B. Compound Plant

1. Plasticizers

A total of 6 shipments were evaluated via infrared.

2. Lead Stabilizers

Nine (9) lead assay analyses were performed on these raw materials.

C. Flemington Plant

1. Resin Plant

a. Styrene Monomer in VCM

As a result of a power failure, two batches were shortstopped with styrene monomer. The recovered VCM was analyzed for styrene monomer. The level was found to be 100 ppm.

D. Miscellaneous

1. Personnel

Mrs. E. Gallagher will resign as Junior Chemist effective 7/12/73.

2. Running Account of Analyses

<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>
340	419	418	428	446	403

Fred W. Kunzler

F.W. Kunzler

FWK/jst