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BUSINESS CONFIDENTIAL

MONTHLY REPORT

MEMORANDUM

TO: C. K. Fink retired.

FROM: W. H. Bauer - Bound Brook, N. J.

DATE: October 28, 1968

SUBJECT: Vinyl Resins and Plasticizer Summary - Tarrytown Technical Center
October, 1968

CALENDERING, FLOORING AND RECORDS

VINYL SUSPENSION RESINS FOR CALENDERING (333 S 90)

1. ELM COATED FABRICS, BROOKLYN, NEW YORK

Morristown, N. J.

The Special Problems Group at Texas City is preparing a series of experimental resin samples for submittal to Elm. Meanwhile, our salesman, Mr. Hornack has defined that "PLASKON" SG-313 represents eighty percent of the PVC resin consumed by Elm (about 8MM pounds). Therefore, the target resin is of a different molecular weight from that defined six months ago (I.V. 0.82 vs 0.97).

Trademark (Allied Chemical)

mytown

In spite of this, it is expected that the proposed series of experimental resins will provide a useful definition of Elm's needs with respect to fines level and dry blending characteristics. If Elm's requirements define the need for a direct competitor to "PLASKON" SG-313, it will be necessary for UCC to consider production of a new product - QSAJ.

(L. G. Krauskopf)
Technical Service
Tarrytown

1970 - Allied Chemical
170,000,000 Million

UCC 087137

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BUSINESS CONFIDENTIAL — MONTHLY REPORT

MEMORANDUM

RECEIVED
FEB 8 1968
R. N. Wheeler

TO: Dr. C. K. Fink

FROM: Mr. W. H. Bauer

DATE: January 31, 1968

SUBJECT: Vinyl Resin and Plasticizer Summary - Tarrytown Technical Center, January, 1968

CALENDERING, FLOORING & RECORDS

VINYL SUSPENSION RESINS FOR CALENDERING (333 S 90)

1. VINYL CHLORIDE-ETHYLENE COPOLYMERS - APPLICATIONS STUDY

The revised applications program relating to these copolymers will not be issued for another two weeks. Meanwhile, two phases of the program are underway. The use of type - III resins in calendered film and sheeting is reported under Vernon Plastics; the use of type - I in wire and cable is summarized under QSAN-7 in that section of this report.

(W. H. Bauer)

2. PLATE-OUT STUDIES

Rerun of the five resins outlined in the December Summary failed to confirm the advantage of type - I resins over conventional Process 7 homopolymer. Reproducibility of the Ford plate-out test is a plague upon this program. A sample of Borden's VC 106 PM (suspected to be acid polymerized) was somewhat lighter than QYTQ-7 (Blend 211). During February, a meeting will be held with Messrs. Richardson and Meissner to determine the future course of this study.

(W. H. Bauer)

3. ELM COATED FABRICS, BROOKLYN, NEW YORK

The customer has all but abandoned the use of Process 5 resins and all efforts to secure approval of Process 7 counterparts have met with failure. Mr. L. G. Krauskopf has been assigned the task of defining the technical problems at this account. Once defined, appropriate action and/or programs will be recommended.

(W. H. Bauer)

4. VERNON PLASTICS, LYNN, MASSACHUSETTS

Samples of Opalons 660 and 630 (Monsanto) have been characterized for melt and compound physical properties in four of the subject's formulations. Ethylene modified vinyl resins QSOS and QSOM have been assessed as part for part replacements in the Vernon systems and are adjudged as suitable for trials in the subject's calendering operation to achieve:

1. Improved physicals at equivalent processing characteristics.

Insufficient data is available at this time to make a recommendation on formulation adjustments to achieve:

2. Equivalent physicals at improved processibility.

Data pertinent to (1) to follow:

FORMULATION

	1		2		3		4	
Apparent Melt	660	QSOS	660	QSOS	630	QSOM	660	QSOS
Viscosity	1500	1580	1240	1330	1150	1210	1200	1310
Shore Hardness A	77	82	72	73	77	81	77	81
Brittleness, °C	-18	-24	-30	-32	-20	-22	-34	-46
Tensile, psi	2765	3155	2020	3610	2280	3950	2785	3830
Elongation, %	223	215	245	317	243	273	243	300

(P. T. McCoy)