



INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

P. O. BOX 491, TEXAS CITY, TEXAS 75681

TO: NAME Mr. F. L. Johnson
COMPANY Building 38
LOCATION TEXAS CITY PLANT

DATE July 26, 1976

FROM: Mr. H. F. Eisenhower
Mr. D. L. Frantz
Mr. C. F. Taconard
Mr. R. M. Wheeler - 514

SUBJECT

Frank:

At your request, spot samples of OSAL-7 were obtained from the No. 4 Baggging Room and analyzed for residual VCM. A comparison with the original bin analysis (taken from top of bin after blending) is as follows:

Blend No.	Date	Time	Residual VCM, ppm	
			Bin	Bac
B-1045	7-20	3:00 p.m.	3	10
B-1083	7-21	1:00 p.m.	18	3
B-1086	7-22	10:00 a.m.	9	<1
B-1088	7-23	10:00 a.m.	1	11

The data seem to indicate a trend of a slight reduction in residual VCM occurring as resin is transferred from storage bin into bagging room. This observation is not unexpected.

Please let me know if additional information is desired.

Very truly yours,


R. L. Arnold

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055082


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INTERNAL CORRESPONDENCE

RECEIVED

JUL 28 1976

CHEMICALS AND PLASTICS

PLANT DISTRIBUTION

P. O. BOX 471, TEXAS CITY, TEXAS 75681

TO (NAME) Mr. F. L. Johnson
 COMPANY Building 30
 LOCATION TEXAS CITY PLANT

DATE July 26, 1976

COPY TO Mr. M. J. Eisenhower
 Mr. J. L. Frantz
 Mr. J. F. Jacquard
 Mr. C. L. Wheeler - 511

Frank:

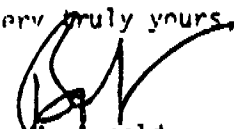
At your request, spot samples of OSAL-7 were obtained from the No. 4 Baggging Room and analyzed for residual VCM. A comparison with the original bin analysis (taken from top of bin after blending) is as follows:

Blend No.	Date	Time	Residual VCM, ppm	
			Bin	Bag
B-1025	7-20	3:00 p.m.	3	10
B-1027	7-21	1:00 p.m.	12	3
B-1026	7-22	10:00 a.m.	0	1
B-1028	7-23	10:00 a.m.	1	111

The data seem to indicate a trend of a slight reduction in residual VCM occurring as resin is transferred from storage bin into bagging room. This observation is not unexpected.

Please let me know if additional information is desired.

Very truly yours,


 R. L. Arnold

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CARBIDE**

INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

P. O. BOX 471, TEXAS CITY, TEXAS 77590

TO: NAME: Mr. J. L. May
 COMPANY: Building 114
 LOCATION: TEXAS CITY PLANT

DATE July 7, 1976

FROM: Mr. J. L. May
 Mr. J. L. May
 Mr. J. L. May
 Mr. J. L. May
 Mr. J. L. May
 Mr. J. L. May
 Mr. J. L. May - 514

SUBJECT

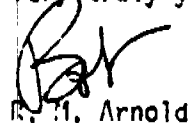
Dear Sirs:

As requested, spot samples of VCM were obtained from the slurry
 belt, layer feed (off the Bird) and dryer to determine residual
 vinyl chloride. These data are shown in the attached table.

The data indicate that a reduction of residual VCM from approximately
 2000 ppm to ~ 50 ppm occurs during various drying stages at Building 120.

Please let me know if additional information is desired.

Very truly yours,



R. H. Arnold

cc:
 Attachment

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ANALYSIS OF VCM SAMPLES OBTAINED
FROM BUILDING 120 DRYERS

<u>Sample</u>	<u>Date</u>	<u>Time</u>	<u>VCM, ppm</u>
Slurry Bird Cake Dover Spht	6-28	10:00 a.m.	2293 810 15
Slurry Bird Cake Dover Spht	6-30	10:00 a.m.	1829 868 23
Slurry Bird Cake Dover Spht	7-1	10:00 a.m.	3206 228 46
Slurry Bird Cake Dover Spht	7-2	10:00 a.m.	3416 706 106

Note: Slurry and Bird Cake Samples Adjusted
for Total Solids.

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RESIDUAL VCM ANALYSIS
TEXAS CITY VINYL RESINS PRODUCTION

JUNE, 1976

Authors: R. M. Arnold
L. D. Morgan
Supervisor: ✓ G. F. Tacquard
Date: July 2, 1976

Attached in Table I is a summary of the residual VCM levels in suspension vinyl resin products produced during the month of June. The residual VCM level in QSAI-7 and QSAL-7 production showed a slight decrease from the May production.

A dramatic decrease in residual VCM levels was observed in QSNF-7 production from the last production run (June, 1975). A decrease in blend analysis from 600 ppm to 60 ppm was observed. VSKY-10 and VSJE-10 showed no obvious change in residual VCM levels from recent production runs.

Tables II-XII summarize individual bin and blend data from suspension vinyl resin production during the month. Also shown in Tables XIII and XIV are residual VCM levels in non-solvent and solvent production, respectively. One VHH bin, one VYHD bin and one VYNS bin were blended to achieve < 1 ppm VCM.

/kw
Attachment

RESINS LABORATORIES
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS DIVISION
TEXAS CITY PLANT

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TABLE
SUMMARY OF VCM ANALYSIS OF SUSPENSION VINYL RESINS
JUNE, 1976

<u>Resin Type</u>	<u>VCM, ppm</u>		<u>% Blends</u>	
	<u>Bin</u>	<u>Blend</u>	<u>< 10 ppm VCM</u>	<u>< 1 ppm VCM</u>
QSAL-7	7	3	97	36
QSAH-7	-	4	88	26
QSAH-7	20	28	15	-
QSQF-7	106	64	-	-
VSKK-10	398	648	-	-
VSQE-10	603	375	-	-

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TABLE I
RESIDUAL VCM CONTENT OF ORAL-7 BLEND SAMPLES
JUNE, 1976

<u>Blend Number</u>	<u>VCM, ppm</u>	<u>Blend Number</u>	<u>VCM, ppm</u>
994	4	1020	2
995	2	1021	1
996	2	1022	1
997	5	1023	1
998	2	1024	2
999	2	1025	1
1000	16	1026	1
1001	4	1027	-
1002	2	1028	1
1003	< 1	1029	2
1004	2	1030	3
1005	< 1	1031	2
1006	2	1032	1
1007	1	1033	3
1008	< 1	1034	1
1009	< 1	1035	1
1010	< 1	1036	-
1011	2	1037	1
1012	< 1	1038	1
1013	< 1	1039	7
1014	< 1	1040	3
1015	3	1041	1
1016	2	1042	1
1017	1	1043	1
1018	13	1044	3
1019	1	1045	3
	3	1046	4
	< 1	1047	1
	1	1048	3
	2	1057	< 1
	1	1058	9
	2	1059	< 1
	2		

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TABLE I I
RESIDUAL VC⁺ CONTENT OF PLAN-7 BLEND SAMPLES
JUNE, 1966

<u>Blend Number</u>	<u>VC⁺, ppm</u>
6899	11
6900	5
6901	2
6902	< 1
6903	< 1
6904	1
6905	< 1
6906	< 1
6907	3
6908	8
6909	5
6910	4
6911	3
6912	10
6913	1
6914	5
6915	-
6916	2
6917	1
6918	1
6919	< 1
6920	2
6921	6
6922	1
6923	3
6924	-
6925	-
6926	19
6927	4

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TABLE IV
RESIDUAL VCM CONTENT OF OSAM-7 BLEND SAMPLES
JUNE, 1976

<u>Blend Number</u>	<u>VCM, ppm</u>
1830	3
1831	34
1832	45
1833	21
1834	30
1835	7
1836	7
1837	24
1838	20
1839	20
1840	36
1841	34
1842	22
1843	13
1844	146
1845	22
1846	11
1847	23
1848	17
1849	-
1850	19

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TABLE 1
RESIDUAL VCM CONTENT OF OLOF BLEND SAMPLES
JUNE, 1976

<u>Blend Number</u>	<u>VCM, ppm</u>
334	34
335	44
336	44
337	22
338	25
339	41
340	66
341	125
342	83
343	63
344	45
345	90
346	164
347	62
348	50

TABLE V
RESIDUAL VCM CONTENT OF VAKK-10 BLEND SAMPLES
JUNE, 1976

<u>Blend Number</u>	<u>VC%, ppm</u>
1063	410
1064	929
1066	774
1068	478

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TABLE VII
RESIDUAL VCM CONTENT OF VSCE-10 BLEND SAMPLES
JUNE, 1976

<u>Blend Number</u>	<u>VCM, ppm</u>	<u>Blend Number</u>	<u>VCM, ppm</u>
892	104	918	232
893	93	919	302
895	125	920	224
896	362	921	454
897	180	922	463
898	451	923	610
899	438	924	940
900	234	925	518
901	428	926	798
902	304	927	332
903	37	928	620
904	25	929	922
905	608	930	285
906	311	931	546
907	234	932	327
908	182	933	541
909	254	934	237
910	571	935	270
911	722	936	121
912	1012	937	351
913	256	938	485
914	394	939	45
915	198	940	65
916	243	941	164
917	226		

TABLE VIII
RESIDUAL VCM CONTENT OF CSAL-7 BIN SAMPLES
JUNE, 1976

<u>Bin</u>	<u>Date</u>	<u>VCM, ppm</u>	<u>Bin</u>	<u>Date</u>	<u>VCM, ppm</u>	<u>Bin</u>	<u>Date</u>	<u>VCM, ppm</u>
605	6-1	8	403	6-7	< 1	601	6-14	2
415	"	27	405	"	16	405	"	1
606	"	2	402	"	< 1	605	"	< 1
412	"	71	608	"	2	400	6-15	4
601	"	12	406	6-8	3	604	"	1
603	6-2	< 1	604	"	3	414	6-16	1
604	"	10	609	"	2	400	6-17	1
405	"	4	408	"	31	406	"	2
406	"	5	409	"	23	411	"	3
411	"	4	602	"	10	414	6-18	1
408	6-3	4	607	6-9	2	415	6-19	3
409	"	9	606	"	1	411	"	1
502	"	< 1	411	"	12	412	6-20	2
607	"	3	405	"	< 1	408	"	6
402	"	8	414	"	< 1	400	"	5
414	"	10	604	"	1	403	6-21	3
412	6-4	7	608	6-10	5	414	"	26
606	"	2	403	"	8	401	"	30
415	"	3	601	"	3	406	"	1
405	"	< 1	607	"	1	411	6-22	1
406	"	5	602	6-11	3	408	6-23	4
604	"	< 1	606	"	4	412	"	3
411	6-5	< 1	608	"	3	406	6-24	127
400	"	< 1	405	"	2	409	"	12
607	"	< 1	605	"	< 1	414	6-25	33
604	6-6	4	604	6-12	2	412	6-26	18
408	"	50	606	"	< 1	602	6-27	3
602	"	< 1	406	"	1	603	6-28	3
606	"	< 1	414	6-13	4	606	"	2
609	"	4	602	"	< 1	607	6-29	5
414	"	< 1	403	"	< 1	604	"	2
605	"	< 1	411	"	2	600	6-30	1
602	"	9	609	"	2	608	"	1

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TABLE IX
RESIDUAL VCM CONTENT OF OSAR-7 BIN SAMPLES
JUNE, 1976

<u>Bin</u>	<u>Date</u>	<u>VCM, ppm</u>
403	6-26	14
402	"	4
405	"	8
411	6-27	40
406	"	26
408	"	29
414	"	4
411	6-28	11
403	"	4
402	"	42
412	"	38
408	6-29	23
405	"	13
409	6-30	24
412	"	31
411	"	16
403	"	12

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TABLE 1
RESIDUAL VCM CONTENT OF DSQF-7 DIN SAMPLES
JUNE, 1976

<u>Din</u>	<u>Date</u>	<u>VCM, ppm</u>
608	6-20	68
605	6-21	63
604	"	55
602	6-22	63
604	"	55
603	"	48
607	"	59
601	6-23	128
606	"	107
604	6-24	118
602	"	147
605	"	214
607	"	99
603	6-25	254

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REGIONAL VCM CONTENT OF 1/2-10 BIN SAMPLES

JUNE, 1976

<u>Bin</u>	<u>Date</u>	<u>VCM, ppm</u>
702	6-24	1588
708	"	642
705	6-25	900
700	"	991
707	6-26	671
703	"	950
704	6-27	829
701	"	1076
702	"	367
705	6-28	647
708	6-29	336
702	"	1545
707	6-30	1051
704	"	480

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TABLE XII
RESIDUAL VCM CONTENT OF VSJE-10 BIN SAMPLES
JUNE, 1976

<u>NO.</u>	<u>DATE</u>	<u>WCM, WPM</u>	<u>NO.</u>	<u>DATE</u>	<u>WCM, WPM</u>
700	6-1	919	706	6-15	861
700	"	202	704	6-15	861
707	"	229	709	"	1090
706	"	490	706	6-16	1178
700	6-2	397	707	"	1090
703	"	348	701	6-17	1000
704	6-3	498	704	"	993
701	"	427	703	"	797
702	"	695	705	"	602
706	"	340	700	6-18	927
707	6-4	550	702	6-19	777
708	"	387	707	"	1155
703	"	618	704	6-19	897
709	6-5	349	705	6-20	395
706	6-6	594	701	6-21	691
703	"	652	704	"	445
704	"	1119	707	"	531
701	6-7	1483	702	"	413
707	"	1260	703	6-22	161
702	6-8	1040	705	"	535
708	6-9	460	706	"	608
700	6-10	250	708	"	493
702	6-11	285	702	6-23	393
707	"	286	704	"	563
702	6-12	338	700	"	162
703	6-13	512	701	"	480

TABLE XIII
RESIDUAL VCM CONTENT OF NON-SOLVENT BLEND SAMPLES
JUNE, 1976

<u>Blend Number</u>	<u>VYNH</u> VCM, ppm	<u>Blend Number</u>	<u>CVML</u> VCM, ppm
3931	33	1474	6
3932	8	1475	3
3933	10	1476	3
3934	2	1477	1
3935	7	1478	2
3936	2	1479	4
		1480	8

TABLE XIV
RESIDUAL VCM CONTENT OF SOLVENT VINYL RESIN BIN SAMPLES
JUNE, 1976

<u>VYIH</u>		<u>VMCH</u>		<u>VMCC</u>		<u>VYHD</u>		<u>VYHC</u>	
<u>Bin</u>	<u>VCM, ppm</u>	<u>Bin</u>	<u>VCM, ppm</u>	<u>Bin</u>	<u>VCM, ppm</u>	<u>Bin</u>	<u>VCM, ppm</u>	<u>Bin</u>	<u>VCM, ppm</u>
61	< .2	72	< .2	72	< .2	31	.3	11	< .2
41	< .2	71	< .2	84	< .2	32	< .2	12	< .2
64	< .2	82	< .2	83	.2	33	< .2	21	< .2
34	< .2	82	< .2	74	< .2			22	.2
51	< .2	71	< .2	74	.2			23	0.9
62	7.6			71	< .2			13	< .2
52	< .2							14	0.2
41	< .2							21	< .2
63	< .2							22	< .2
34	< .2								
43	< .2								
44	< .2								
61	< .2								
51	< .2								

DISTRIBUTION

TEXAS CITY

Mr. W. E. Eisenhour
Mr. R. L. Frantz
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TAFT

Mr. A. S. Amatangelo



RESIDUAL VCM ANALYSIS
TEXAS CITY VINYL RESINS PRODUCTION

May, 1976

Author: R. M. Arnold
L. D. Morgan

Supervisor: ✓ G. F. Tacquard

Date: June 9, 1976

Attached in Table I is a summary of the residual VCM levels in suspension vinyl resin products produced during the month of May. Essentially all of the QSAN-7 production shown in this data is resin having the QSAL-7 molecular weight. Thus, a slight increase in residual VCM levels of QSAN-7/QSAL-7 production was observed when compared with actual QSAN-7 production during April. A slight decrease in residual VCM in QSAH-7 production during the month was also observed. Individual bin and blend data for suspension resin produced during the month are shown in Tables II-VIII.

Also shown in Tables IX and X are residual VCM levels in non-solvent and solvent production during May. One VMCH bin and one VYHD bin were blended to achieve 1 ppm VCM.

/mf

Attachments

RESINS LABORATORIES
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS DIVISION
TEXAS CITY PLANT

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TABLE I

SUMMARY OF VCM ANALYSIS OF SUSPENSION VINYL RESINS

May, 1976

<u>Resin Type</u>	<u>VCM, ppm</u>		<u>Pct Blends <10 ppm VCM</u>	<u><1 ppm VCM</u>
	<u>Bin</u>	<u>Blend</u>		
QSAN-7	---	13	64	12
QSAL-7	16	10	59	9
QSAH-7	42	29	16	--
QSAP-7	14	20	62	46

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TAB

RESIDUAL VCM CONTENT OF QSAN-7 BLEND SAMPLES

May, 1976

<u>Blend No.</u>	<u>VCM, ppm</u>	<u>Blend No.</u>	<u>VCM, ppm</u>	<u>Blend No.</u>	<u>VCM, ppm</u>
6800	7	6844	11	6885	1
6806	17	6845	8	6886	3
6809	29	6846	20	6888	22
6810	13	6847	4	6889	<1
6811	7	6848	9	6890	4
6812	4	6849	3	6892	4
6813	4	6850	10	6895	2
6814	24	6851	15	6896	1
6815	5	6852	3	6897	2
6816	10	6853	5	6898	1
6817	3	6854	1		
6818	13	6855	2		
6819	7	6856	<1		
6820	17	6857	9		
6821	1	6858	<1		
6822	32	6859	4		
6823	30	6860	31		
6824	3	6861	34		
6825	9	6862	2		
6826	13	6863	<1		
6827	8	6864	1		
6828	14	6865	3		
6829	7	6866	12		
6830	103	6867	5		
6831	8	6869	3		
6832	22	6870	<1		
6833	1	6871	10		
6834	17	6872	10		
6835	148	6873	73		
6836	10	6874	5		
6837	25	6875	12		
6838	3	6876	19		
6839	12	6877	<1		
6840	11	6880	2		
6841	35	6881	13		
4842	24	6882	13		
6843	10	6883	4		
		6884	7		

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TABLE III

RESIDUAL VCM CONTENT OF QSAH-7 BLEND SAMPLES

May, 1976

<u>Blend No.</u>	<u>VCM, ppm</u>
1820	10
1821	22
1822	67
1823	270
1824	111
1825	93
1826	22
1827	72
1828	24

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TABLE IV

RESIDUAL VCM CONTENT OF QSAP-7 BLEND SAMPLES

May, 1976

<u>Blend No.</u>	<u>VCM, ppm</u>
714	15
715	<1
740	2
741	16
742	<1
743	10
744	<1
746	6
747	1
748	25
749	<1
750	<1
751	<1
752	31
753	<1
754	14
755	20
756	<1
757	2
758	<1
759	34
760	3
761	21
762	<1
763	190
764	1
765	2
766	<1
767	173
768	15
769	<1
770	<1
771	65
772	<1
773	65
774	<1

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TABLE V

RESIDUAL VCM CONTENT OF QSAL-7 BLEND SAMPLES

May, 1976

<u>Blend No.</u>	<u>VCM, ppm</u>
969	18
970	11
971	11
972	<1
973	48
976	<1
977	5
979	6
981	<1
982	3
983	2

TABLE VI

RESIDUAL VCM CONTENT OF QSAL-7 BIN SAMPLES

May, 1976

Bin No.	Date	VCM, ppm	Bin No.	Date	VCM, ppm	Bin No.	Date	VCM, ppm	Bin No.	Date	VCM, ppm
704	5-1	13	705	5-11	39	408	5-19	11	412	5-27	15
702	"	8	706	"	3	405	"	4	406	5-28	31
703	"	5	702	"	2	609	"	1	414	"	15
708	"	8	703	"	39	411	5-20	33	409	"	5
706	"	26	707	5-12	20	603	"	12	411	"	46
709	5-2	27	702	"	4	607	"	<1	415	"	2
705	"	7	701	"	13	608	"	12	405	"	2
701	"	1	705	5-13	17	409	"	11	403	5-29	<1
702	5-3	<1	703	"	74	605	"	10	406	"	10
703	"	37	701	5-14	40	606	"	7	606	"	<1
704	"	139	704	"	24	709	5-21	<1	412	5-30	40
702	"	<1	708	"	3	706	"	2	603	"	2
705	"	71	702	"	12	412	"	22	409	"	18
701	5-4	<1	706	"	46	415	"	15	411	"	4
703	"	<1	707	5-15	27	703	"	12	609	"	3
701	"	<1									
704	"	6	703	"	<1	406	5-22	5	601	"	<1
701	5-5	7	605	"	8	702	"	3	606	5-31	4
704	5-6	7	706	"	3	414	"	12	608	"	7
706	"	7	702	"	21	409	"	4	607	"	2
702	"	24	601	"	7	705	"	2	414	"	6
709	"	229	703	5-16	4	708	"	<1	603	"	2
708	"	10	607	"	33	702	5-23	14	406	"	22
703	5-7	24	705	"	1	402	"	8			
701	"	22	606	"	6	709	"	2			
705	"	43	603	5-17	5	703	"	7			
706	"	71	708	"	4	702	5-24	2			
704	5-8	6	702	"	4	411	"	3			
708	"	8	704	"	<1	705	"	15			
702	"	26	703	"	6	708	"	28			
705	5-9	8	701	"	78	408	5-25	7			
701	"	12	609	"	24	702	"	10			
704	"	8	601	"	28	409	"	2			
709	"	13	403	5-18	4	703	"	<1			
709	"	26	412	"	5	709	5-26	4			
708	5-10	12	414	"	6	706	"	<1			

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TABLE VII
RESIDUAL VCM CONTENT OF QSAH-7 BIN SAMPLES
May, 1976

<u>Bin No.</u>	<u>Date</u>	<u>VCM, ppm</u>
409	5-10	257
403	"	12
412	5-11	2
405	5-12	6
408	"	52
411	"	12
412	5-14	15
414	"	31
405	"	33
402	"	28
408	"	32
406	5-15	27
403	"	10
415	"	4
412	5-16	19
414	"	36
402	"	133
406	5-17	108
408	"	13
405	"	49
415	"	19
409	5-18	23
406	"	46

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TABLE VIII

RESIDUAL VCM CONTENT OF QSAP-7 EIA SAMPLES

May, 1976

<u>Bin No.</u>	<u>Date</u>	<u>VCM, ppm</u>
604	5-1	<1
603	"	12
605	"	2
606	5-2	1
607	"	2
609	"	2
601	"	9
603	5-3	23
602	"	<1
604	"	<1
606	5-4	1
608	"	<1
607	"	15
601	5-5	3
602	"	15
603	"	<1
605	5-6	22
609	"	<1
608	"	<1
606	"	17
602	"	<1
607	"	8
605	5-7	45
601	"	2
603	5-8	93
607	"	2
605	"	2
608	"	143
609	5-9	2
603	"	43
601	"	1
602	5-10	1
604	"	<1
607	"	1

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TABLE IX

RESIDUAL VCM CONTENT OF NON-SOLVENT BLEND SAMPLES

May, 1976

VYIHW		OY:J	
<u>Blend No.</u>	<u>VCM, ppm</u>	<u>Blend No.</u>	<u>VCM, ppm</u>
3926	6	19	15
3927	3	20	3
3928	<1	21	<1
3929		18	21
3930	5		

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TABLE X

RESIDUAL VCM CONTENT OF SOLVENT VINYL RESIN BIN SAMPLE

May, 1976

VYHH		VMCH		VYHD		
<u>BIN NO.</u>	<u>ppm, VCM</u>	<u>BIN NO.</u>	<u>ppm, VCM</u>	<u>BIN NO.</u>	<u>ppm, VCM</u>	
54	0.4	82	<0.2	31	0.6	Resample
53	<0.2	71	<0.2	31	0.6	
52	0.2	73	<0.2	43	<0.2	
52	0.6	82	<0.2	32	0.8	
62	<0.2	84	<0.2	33	1.0	
63	0.2	72	<0.2	33	1.0	
54	0.2	81	<0.2	34	0.9	
51	<0.2	73	<0.2			
41	<0.2	74	<0.2			
61	<0.2	84	<0.2			
52	<0.2	72	<0.2			
62	<0.2	83	0.6			
53	0.2	71	<0.2			
63	0.2	82	<0.2			
		72	<0.2			
		81	<0.2			
		74	<0.2			
		84	<0.2			
		71	<0.2			
		73	<0.2			
		74	<0.2			
		83	<0.2			

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