



V C
Resin Content

RESIDUAL VCM ANALYSIS
TEXAS CITY VINYL RESINS PRODUCTION

May, 1976

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

RECEIVED
JUN 14 1976
R. N. WHEELER, JR.

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

UCC
038294

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

UCC
038295

TABLE II
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		

UCC
038296

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

UCC
038297

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

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			
701	5-11	13	402	5-19	2	403	"	28			
708	"	4	406	"	18	702	5-27	5			
704	"	13	604	"	3	705	"	3			

UCC
038300

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	"	<1
412	5-16	19
414	"	36
402	"	133
406	5-17	108
408	"	13
405	"	49
415	"	19
409	5-18	23
406	"	46

UCC
038301

TABLE VIII

RESIDUAL VCM CONTENT OF QSAP-7 BII 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

UCC
038302

TABLE IX

RESIDUAL VCM CONTENT OF NON-SOLVENT BLEND SAMPLES

May, 1976

VYNW		OYNJ	
<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		

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	
53	<.2	71	<0.2	31	0.6	
52	0.2	73	<0.2	43	<.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	Resample
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			

DISTRIBUTION

TEXAS CITY

Dr. C. E. Moyer/Dr. D. R. Montgomery
Mr. M. E. Eisenhour
Mr. R. L. Frantz
Mr. J. L. Hockersmith/F. L. Johnson
Mr. K. E. Ross
Mr. F. S. Provenzano

BOUND BROOK

Dr. R. J. Anderson
Mr. T. F. Archer
Mr. E. Bell
Mr. R. G. Davis

NEW YORK OFFICE

Mr. A. E. Donaldson
Mr. J. B. Hollingsworth
Mr. S. A. Mortimer
Mr. G. T. Scott
Dr. T. T. Szabo

SOUTH CHARLESTON PLANT

Mr. C. E. Fry
Mr. R. N. Wheeler ✓

TAFT

Mr. A. S. Amatangelo

UCC
038305