

<VAM>

92 . 가 9 4000 ,

VAM(Vinyl Acetate Monomer)  
가

가 가  
EVA(Ethyl Vinyl Acetate)

PVA(Poly Vinyl Alcohol), EVA VAE(Vinyl Acetate Ethylene Emulsion)

< 2> VAM

( : , %)

	1989		1990		1991		1992		1993	
.	25,800	28,400	10.1	37,500	32.0	42,000	12.0	46,000	9.5	
PVA	-	-	-	-	-	30,000	-	30,000	-	
VAE	-	-	-	-	-	7,000	-	10,000	42.9	
EVA	3,000	5,000	66.6	5,000	-	15,000	200.0	15,000	-	
	28,800	33,400	16.0	42,500	27.2	94,000	121.1	101,000	7.4	

( ) 92 PVA 100% 가 , 93 VAE 100% 가 ,  
92 . EVA 100% 가

VAM (Acetic Acid) 가 15 가 VAM 가 4  
가  
BP가  
VAM가

< 1> VAM

( : , %)

	1989		1990		1991		1992		1993	
	-	-	-	-	-	-	-	-	120,000	-
	28,943	15.4	33,217	14.8	42,500	27.9	94,000	121.1	50,000	
	28,943	15.4	33,217	14.8	42,500	27.9	94,000	121.1	170,000	80.9
	28,753	16.1	33,096	15.1	42,350	30.0	93,850	121.6	101,000	7.6
	190	23.4	121	36.3	150	24.0	150	-	69,000	360.0

( ) 가 93 , 가 80% . 50%

VAM < 3>

가

( : , )

	1989		1990	
		가		가
	3,361.9	914.9	3,365.2	730.2
	99.9	1,080.2	-	-
	25,228.6	862.4	29,821.5	743.5
	231.7	965.0	-	-
	28,943.8	894.4	33,216.8	773.1

< 4> VAM

( : )

		Quantum	600	Vapor-phase ethylene
		UCC	550	"
			250(90)	
		Dupont	575	"
			245	
		Hoechst Celanese	575	"
			500	
			2,765	
		Celanese Mexicana	30	
			31	
		61		
		BP	90	captive ethylene and acetic acid derived from methanol and Naphtha
		Rhone-Poulenc	160	captive acetylene, acetic acid from methanol
		Hoechst	180	Ethylene and captive acetic acid from acetaldehyde
		Wacker-Chemie	80	"
		Montedipe	55	captive acetylene, acetic acid from acetaldehyde
		Tarragona Quimica	75	Ethylene and purchased acetic acid
			640	
		DENKA	60	
			60	
		Kuraray	162	
		Nippon Synthetic	132	
		Shin-Etsu	80	
	Showa Denko	80		
		574		
		Dairen	100	
		Sichun Vinylon	90	
		SPC	66	
			254	
		65	94.	
		60	93.	

,4 AA 15 VAM  
VAM 90 3 3217  
3 2096  
VAM 89 2 8753 ( 16.1% 가), 90 3 2096 (15.1% 가)  
가 가 4 AA 가  
92 VAM 9 4000 PVA 3 가 ,  
EVA 가 , VAE 가  
1 5000 PVA 가 3 VAM , 3  
EVA 3000 가 VAM , 91 3  
EVA 가 , 92 3 EVA 가  
, 92 EVA VAM 1 5000  
가 Air Products , 1 5000 VAE 92  
, 가 7000 (70% 가 ?) VAM , 가  
93 VAM 1

< 5>

( :1000 )

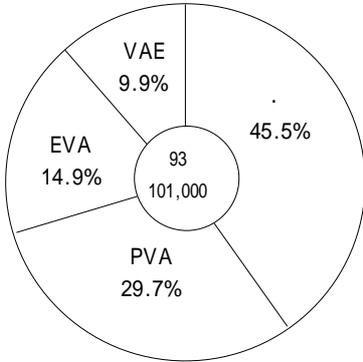
					1988		1993	
	50	50	1	19	32	36		
	61	52	-	18	34	42		
	1,254	1,161	2	289	805	943		
	640	537	284	158	654	735		
	574	455	60	5	504	576		
	286	308	-	-	262	-		
	2,865	2,563	347	489	2,291	-		

, 92 VAM 9 3850 121.1% 가  
VAM 가 93 VAM 가 80.9% 10 1000  
VAM 91 VAM 88.2%,  
EVA 11.8% 92  
44.7%, PVA 31.9%, VAE 7.4%, EVA 16.0% 가  
PVA/VAE  
93 4 6000 45.5%, PVA 3 29.7%, VAE 1 9.9%, EVA  
1 5000 14.9%  
가 , 88 17 7400  
PVAc 59.1% 가 PVA 19.3%, PVB(Poly Vinyl  
Butyral) 9.0%, EVA 7.3%, VCM 2.3%, EVOH(Ethylene-Vinyl Alcohol) 1.0%, 2.0%  
93 20 7900  
PVAc 11 9500 57.5%, PVA 4 300 19.4%, PVB 1 8500 8.9%,  
EVA 1 5600 7.5%, VCM 3500 1.7%, EVOH 7000 3.3%, 3500  
1.7% PVAc PVB , VCM , EVOH 가

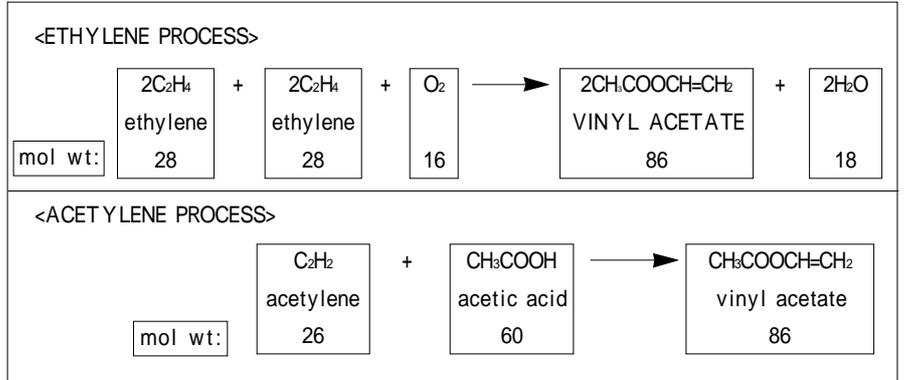
VAM

가

< 1> VAM ( )



< 2> VAM



EVA · PVA · VAE

VAM 가

VAM 가  
670 ~ 680

, 가 , 4/4  
1 700

1/4 VAM가  
Hoechst Celanese,

가 20~30%  
Shin-Etsu 가

BP  
가

PVA VAM 가 VAM가

, 90  
Hoechst-Celanese

3 3217 Shin-Etsu · Kuraray  
89.8%

10.1%

< 6>

( : )

	PVAc	PVA	PVB	EVA	VCM	EVOH		
1965	320	92	45	-	61	-	12	530
1971	472	120	65	21	70	-	45	793
1976	680	248	72	50	52	-	16	1,118
1978	816	279	90	87	72	-	75	1,419
1980	816	280	112	88	62	-	40	1,398
1981	795	282	115	99	55	-	55	1,400
1982	734	262	106	106	40	-	49	1,297
1983	918	289	148	115	42	-	40	1,552
1984	938	298	137	108	51	-	35	1,567
1985	953	298	139	115	53	-	35	1,593
1986	995	300	141	121	53	6	35	1,651
1987	1,005	313	152	123	40	11	36	1,680
1988	1,049	342	160	130	40	17	36	1,774
1993	1,195	403	185	156	35	70	35	2,079

Quantum · UCC · Dupont · Hoechst Celanese 27 6500  
가

90 89.8% 가 743.5

VAM가 700

VAM 가 + +O2  
Vinyl acetate Ethylene + Vinyl acetate

가  
1 Vi-nyl acetate 0.36 ~ 0.40  
Bayer

0.73  
Quantum Quantum UCC, Dupont, Hoechst-Celanese Ethylene 27  
6500 BP가  
Montedipe Acetylene

93 94 3000 가  
73 5000 , 57 6000  
88 290 44%, 22%, 20%

, VAM

< 1992/2/1 >