

■ 미국 플라스틱 연간 생산량 변화

Millions of lb ^a	Production										% annual change		
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1997-98	1988-98
THERMOSETTING RESINS													
Epoxy ^b	486	509	499	497	457	512	601	632	662	654	639	-2%	3%
Melamine ^c	207	222	202	196	232	270	300	290	287	303	290	-4	3
Phenolic ^{c, d, e}	3,066	2,879	2,946	2,658	2,923	3,078	3,229	3,204	3,476	3,734	3,940	6	3
Polyester ^f	1,404	1,319	1,221	1,075	1,175	1,264	1,468	1,577	1,557	1,621	1,713	6	2
Urea ^c	1,425	1,477	1,496	1,483	1,548	1,744	1,914	1,816	2,147	2,335	2,581	11	6
TOTAL	6,588	6,408	6,364	5,909	6,335	6,868	7,512	7,519	8,129	8,647	9,163	6%	3%
THERMOPLASTIC RESINS													
Polyethylene													
Low density ^g	10,397 ^h	6,575	7,255	7,236	7,273	7,226	7,578	7,643	7,784	7,691	7,578	-1%	-
Linear low density ^g	-	3,120	3,893	4,346	4,644	4,841	5,022	5,243	6,361	6,888	7,227	5	-
High density ⁱ	8,400	8,102	8,337	9,213	9,808	9,941	11,117	11,211	12,373	12,557	12,924	3	4%
Polypropylene ^j	7,274	7,238	8,310	8,330	8,421	8,629	9,539	10,890	11,991	13,320	13,825	4	7
Styrene polymers													
Polystyrene	5,187	5,104	5,021	4,954	5,096	5,383	5,848	5,656	6,065	6,380	6,237	-2	2
Styrene-acrylonitrile ^k	148	113	135	109	113	105	138	130	121	96	122	27	-2
Acrylonitrile-butadiene-styrene and other styrene polymers ^{k, l}	2,418	2,394	2,351	2,287	2,610	2,924	3,230	2,908	2,969	2,997	3,086	3	2
Polyamide, nylon type	566	569	558	576	668	768	943	1,020	1,103	1,222	1,285	5	9
Polyvinyl chloride & copolymers ^k	8,350	8,478	9,096	9,164	9,989	10,257	11,712	12,295	13,220	14,084	14,502	3	6
Thermoplastic polyester ^t	1,652	1,630	1,879	2,115	2,413	2,549	3,196	3,785	4,031	4,260	4,423	4	10
TOTAL	44,392	43,323	46,835	48,330	51,035	52,623	58,323	60,781	66,018	69,495	71,209	2%	5%
GRAND TOTAL	50,980	49,731	53,199	54,239	57,370	59,491	65,835	68,300	74,147	78,142	80,372	3%	5%

Note: Totals are for those products listed and exclude some small-volume plastics. ^a Dry-weight basis unless otherwise specified. ^b Unmodified. ^c Data include Canada from 1997. ^d Includes other tar-acid resins. ^e Gross-weight basis. ^f Unsaturated. ^g Density 0.940 and below. ^h Low density and linear low density. ⁱ Density above 0.940. ^j Data include Canada from 1995. ^k Data include Canada from 1994. ^l Includes styrene-butadiene copolymers and other styrene-based polymers. Source: Society of the Plastics Industry.

■ 미국 페인트와 코팅재료 연간 생산량 변화

Millions of gal	Shipments										% annual change		
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 ^a	1997-98	1988-98
Architectural	536	538	558	538	576	608	645	621	640	647	673	4%	2%
Product ^b	366	360	339	320	312	357	373	376	399	425	468	10	2
Special purpose	154	179	196	180	173	179	194	195	209	182	175	-4	1
TOTAL	1,056	1,077	1,093	1,038	1,061	1,144	1,212	1,192	1,248	1,254	1,316	5%	2%

^a Calculated from quarterly data. ^b For original equipment manufacturers. Source: Department of Commerce.

■ 미국 합성고무 연간 생산량 변화

Thousands of metric tons	Shipments											% annual change	
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1997-98	1988-98
Styrene-butadiene rubber	829	827	791	727	796	817	851	878	907	932	960	3%	1%
Polybutadiene	430	427	431	416	465	473	505	523	535	564	580	3	3
Ethylene-propylene	224	225	208	192	207	227	262	270	289	309	321	4	4
Nitrile, solid	75	72	69	71	74	78	84	83	85	85	89	5	2
Polychloroprene	82	79	79	70	72	70	76	70	70	73	72	-1	-1
Other ^a	399	393	380	362	381	400	408	427	437	449	454	1	1
TOTAL	2,039	2,023	1,958	1,838	1,995	2,065	2,186	2,251	2,323	2,412	2,476	3%	2%

Note: Data include Canada. ^a Includes butyl styrene-butadiene rubber latex, nitrile latex, polyisoprene, and miscellaneous others. Source: International Institute of Synthetic Rubber Producers.

■ 미국 합성섬유 연간 생산량 변화

Millions of lb	Production											% annual change	
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1997-98	1988-98
NONCELLULOSIC FIBERS													
Acrylic ^a	588	543	506	454	439	433	442	432	465	461	346	-25%	-5%
Nylon	2,669	2,740	2,662	2,535	2,556	2,659	2,740	2,703	2,799	2,836	2,847	0	1
Olefin	1,588	1,639	1,810	1,839	1,970	2,114	2,388	2,391	2,414	2,681	2,800	4	6
Polyester	3,680	3,594	3,195	3,411	3,576	3,557	3,858	3,887	3,827	4,090	3,911	-4	1
TOTAL	8,525	8,516	8,173	8,239	8,541	8,763	9,428	9,413	9,505	10,068	9,904	-2%	2%
CELLULOSIC FIBERS													
Acetate ^b & rayon	614	580	505	486	495	505	500	498	475	458	365	-20%	-5%
GRAND TOTAL	9,139	9,096	8,678	8,725	9,036	9,268	9,928	9,911	9,980	10,526	10,269	-2%	1%

^a Includes modacrylic. ^b Includes diacetate and triacetate: excludes production for cigarette filters.

Source: Fiber Economics Bureau.

■ 국내 석유화학제품 연간 생산량 변화

Thousands of metric tons						% change	
	1994	1995	1996	1997	1998	1997-98	
Ethylene	3,667	3,721	3,968	4,450	5,110	15%	
Composite fertilizers	2,514	2,454	2,339	2,110	1,977	-6	
Propylene	2,095	2,131	2,244	2,760	3,247	18	
Polypropylene	1,607	1,619	1,738	2,056	2,355	15	
Polyethylene, high density	1,294	1,232	1,340	1,549	1,615	4	
Benzene	1,255	1,225	1,407	1,819	2,412	33	
Polyethylene, low density	923	970	1,256	1,394	1,518	9	
Polystyrene	869	905	1,000	1,104	1,038	-6	
Polyvinyl chloride	791	914	1,015	1,087	984	-9	
Vinyl chloride	687	675	709	911	984	8	
Butadiene	547	555	601	658	731	11	
Sodium hydroxide	496	627	765	959	1,069	11	
Acrylonitrile-butadiene-styrene	409	491	560	596	636	7	
Synthetic detergents	365	357	354	361	323	-11	
Carbon black	311	323	355	426	384	-10	
Paint	298	315	350	367	276	-25	
Acrylonitrile	136	146	145	400	502	26	

Sources: 통계청.

(자료: C & EN, June 28, 1999/한국화학연구소 이창진)