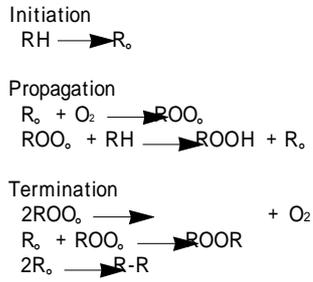


# Specialty

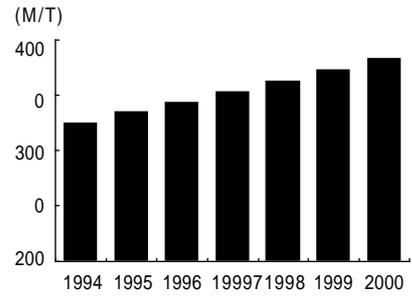
PVC  
Specialty Chem- icals 가 80  
가

Phenol 1 1 , 1  
Amine , 2 가  
, Thio 가 1

[Empty box]



Phenol



Amine 가

Pelletizing 가 가 가

가 가

BHT가 FDA 가 Phenol 가 FDA 가가  
BHT

PE BHT 0.001 ~ 0.1% 가 가 가  
가  
PP PE 0.1 ~ 1.0% BHT 가 Phenol

PVC

PS Phenol

AS, ABS

Phenol , Thio ,



|  |      |   |                                   |
|--|------|---|-----------------------------------|
| Pentaerythrityl-tetrakis[3-(3,5-di-tert, butyl-4-hydroxy-phenyl)-propionate] | 1178 | Songnox 1010<br>Mianto-10<br>AO-60<br>Irganox 1010                  | Ciba-Geigy                        |
| Octadecyl-3-(3,5-di-tert, butyl-4-hydroxyphenyl)propionate                   | 531  | Songnox 1076<br>Mianto-76<br>AO-50<br>Irganox 1076<br>Naugard 76    | Ciba-Geigy<br>Uniroyal Chemical   |
| 2,6-Di-t-butyl-4-methylphenol  | 220  | BHT   | Uniroyal Chemical                 |
| Tris(2,4-di-tert, butylphenyl)phosphite                                      | 647  | Songnox 1200<br>Mianto P-650<br>KP 1420<br>Mark 2112<br>Irgafos 168 | Asahi Denka<br>Ciba-Geigy         |
| Octoxy-di-phenyl phosphite   | 346  | KP 1406<br>Mark C<br>Weston 5DPP                                    | Asahi Denka<br>GE Specialty Chem. |
| Alkylester phosphite   | 1240 | KP 1460<br>Mark 260   | Asahi Denka                       |
| Thio Dilaury Thiodipropionate  | 515  | Mianto-L<br>Argus DLTDP   | Asahi Denka                       |
| Distearyl Thiodipropionate   | 683  | Mianto-S<br>Argus DSTDP   | Asahi Denka                       |
| Dimyristyl Thiodipropionate  | 570  | Argus DMTDP   | Asahi Denka                       |

1, 2 가 가

28%

85 , , , . 80

가 93

50% 가 Kg 1 가

가 Phenol -가 가

Irganox 1010, 1076( 1010, 1076 ) 90 10% 가

95 가 2700 . Phenol BHT

95 가 1200

Irgafos 168( 168 ) 1010/1076 가

95 1000 . 1010/1076 85

Songnox 1010, 1076 3600 , 93 가

Mianto-10, -76 AO 60, 50 2000 , 1500

1010 1178 가 . PE, PP

POM, PA, PUR, . 1076 531

가 1010 가 .

1010/1076

43%

68%

가 24%,

8%

| ( : M/T, %) |           |           |      |           |      |           |      |
|-------------|-----------|-----------|------|-----------|------|-----------|------|
|             | 1994      | 1995      |      | 1996      |      | 1997      |      |
| PP          | 1,705,000 | 1,705,000 | -    | 1,925,000 | 12.9 | 2,225,000 | 15.6 |
|             | 1,609,000 | 1,599,000 | 0.6  | 1,690,000 | 5.7  | 1,786,330 | 5.7  |
| LDPE        | 1,383,000 | 1,383,000 | -    | 1,511,000 | 9.3  | 1,511,000 | -    |
|             | 989,900   | 1,178,000 | 19.0 | 1,231,000 | 4.5  | 1,286,395 | 4.5  |
| HDPE        | 1,150,000 | 1,150,000 | -    | 1,370,000 | 19.1 | 1,370,000 | -    |
|             | 1,284,000 | 1,234,000 | 3.9  | 1,289,000 | 4.5  | 1,347,005 | 4.5  |
| PVC         | 715,000   | 860,000   | 20.3 | 1,200,000 | 39.5 | 1,200,000 | -    |
|             | 791,000   | 970,000   | 22.6 | 998,000   | 2.9  | 1,026,942 | 2.9  |
| PS          | 925,000   | 925,000   | -    | 925,000   | -    | 1,065,000 | 15.1 |
|             | 801,000   | 823,400   | 2.8  | 875,000   | 6.3  | 930,125   | 6.3  |
| ABS         | 400,000   | 530,000   | 32.5 | 580,000   | 9.4  | 620,000   | 6.9  |
|             | 383,500   | 457,100   | 19.2 | 496,000   | 8.5  | 538,160   | 8.5  |
|             | 3,278,000 | 6,553,000 | 4.4  | 7,511,000 | 14.6 | 7,991,000 | 6.4  |
|             | 5,858,400 | 6,261,500 | 6.9  | 6,579,000 | 5.1  | 6,914,957 | 5.1  |

|  | 1998      |      | 1999      |     | 2000      |     |
|--|-----------|------|-----------|-----|-----------|-----|
|  | 2,225,000 | -    | 2,225,000 | -   | 2,225,000 | -   |
|  | 1,888,151 | 5.7  | 1,995,775 | 5.7 | 2,109,535 | 5.7 |
|  | 1,511,000 | -    | 1,511,000 | -   | 1,511,000 | -   |
|  | 1,344,283 | 4.5  | 1,404,775 | 4.5 | 1,467,990 | 4.5 |
|  | 1,370,000 | -    | 1,370,000 | -   | 1,370,000 | -   |
|  | 1,407,620 | 4.5  | 1,470,963 | 4.5 | 1,537,156 | 4.5 |
|  | 1,200,000 | -    | 1,200,000 | -   | 1,200,000 | -   |
|  | 1,056,723 | 2.9  | 1,087,368 | 2.9 | 1,118,902 | 2.9 |
|  | 1,460,000 | 37.1 | 1,600,000 | 9.6 | 1,600,000 | -   |
|  | 988,723   | 6.3  | 1,051,012 | 6.3 | 1,117,226 | 6.3 |
|  | 700,000   | 12.9 | 700,000   | -   | 700,000   | -   |
|  | 583,904   | 8.5  | 633,535   | 8.5 | 687,386   | 8.5 |
|  | 8,466,000 | 5.9  | 8,606,000 | 1.7 | 8,606,000 | -   |
|  | 7,269,404 | 5.1  | 7,643,430 | 5.1 | 8,038,196 | 5.2 |

90%

93

-가

OEM

94

-가

95

-가

2,6-DTBP가

50%

BHT

가  
 Yoshitomi, Sumitomo, Bayer  
 BHT  
 2 168 647 가  
 EP,  
 Songnox 1200 1500  
 가 Mianto P-650 1300 가 KP 1420 360  
 168 1010 1 1, 2 1, 3 1, 4 1 가  
 168  
 96 가  
 Mark 2112 96  
 2,4-DTBP  
 KP 1406, 1460, 1415 가  
 -가 95 가  
 가  
 93 가 가 가 가  
 가 , 96 1 가  
 1010 Kg 6000~7000 , 1076 4000~5000  
 95 6 500 가  
 500~1000ppm  
 1010 1076 HDPE 340ppm , PP 700ppm  
 2 가 가  
 1/3 가 PP  
 90% 가  
 96 PS, ABS 가,  
 가  
 94 95 가 6.9%  
 96 PVC LG 34 , LLDPE 1 8000 ,  
 1 , 10 . HDPE 12 , LG 10  
 , PP , , 2 , 10 , 10  
 97 15 PVC 가 , ,  
 8 , 10 , 12 PP  
 PS, ABS 99 , LG , , , ,  
 91 5000  
 PS, ABS 96 2000 5.1% 가가  
 1010/1076 6.2% 가가  
 80 -가  
 90 , ,  
 가

가

가 230

가

가

Hindered Amine Light Stabilizer (HALS) 가

가 가가 가

Hindered Amine , HALS 2000 ~ 4000

UV-4M, UV-40 , UV-357

TINUVIN 가 , HALS CHIMASSORB

96 10

가 400 ~ 500 ,

HALS 500 900 ~ 1000 . 가 3 ~ 6

가가 가 가

Phenol , 2 ~ 3 가가 가

Varnish

EP

가가 가

< 1996/3/18 >