

< 가 >

가 UV , Quenchers, HALS Phenyl
 Salicylates(), Benzophenone(), Benzotriazole(), Quenchers),
 Radical Scavenger 1945 , 1953 , 1956 , 1957 , 1970

Benzophenone, Benzotria- zoles, Substitutes Acrylate Hydroxy
 250μm 400μm UV 가

가 UV 0.1μm

가 UV M/B HDPE PP

| (: 100 , %) | | | | |
|----------------|------|------|------|-----|
| | 1983 | 1988 | 1993 | |
| HALS | 2.0 | 3.0 | 4.4 | 8.0 |
| Benzotriazoles | 1.4 | 2.5 | 3.3 | 6.0 |
| Benzophenones | 1.5 | 1.5 | 1.6 | 1.0 |
| | 1.1 | 1.0 | 1.3 | 5.0 |
| | 6.0 | 8.0 | 10.6 | 6.0 |

| (: 1000M/T, %) | | | | |
|--------------------------|-------|-------|-------|---|
| | 1983 | 1988 | 1993 | |
| Benzotriazoles | 1,050 | 1,200 | 1,460 | 4 |
| Hindered Amines | 800 | 950 | 1,270 | 6 |
| Benzophenones/Salicylate | 280 | 300 | 300 | 0 |
| Salicylates | 90 | 100 | 110 | 2 |
| Nickel Complex | 50 | 50 | 55 | 2 |
| | 2,270 | 2,600 | 3,195 | 4 |

) CEH

가

340μm

가

290 400μm

Quenchers

| (: PUR) | | |
|------------------|---------|---------|
| | | (index |
| | | 20) |
| | | 5 |
| 0.5% | + 0.5% | 60 |
| 0.5% HALS | | 6 |
| 0.5% HALS + 0.2% | | 15 |
| 0.5% HALS + 0.2% | + 0.2% | 63 |
| 0.5% HALS + 0.2% | + 0.25% | 155 |
| 0.5% HALS + 0.5% | + 0.5% | 180 |

| (: 0.1% , : 30μm PP) | |
|------------------------|--------------------------|
| | (≡) (KJ/m ²) |
| | 80 |
| 0.5% | 170 |
| 0.5% | 210 |
| 0.5% | 440 |
| 0.5% HALS | 1,020 |

: /1

HALS
 HALS Nitroxyl , Hydroxyamine
 ether nitroxyl

HALS 가
 Quenchers 가 Quenchers

HALS 1894 TMOP(2,2,6,6-Teramethyl-4-oxopiper- idine)
 Nitroxyl HALS가
 1967 Sankyo 75 가 Tinuvin 770
 HALS UV UV 가

HALS 가
 UV 가 가 PE Recipe 가
 Chimassorb944 0.1% PP bag TINUVIN 770 0.1% Chimassorb 0.1%
 LDPE EVA Chimassorb 944 0.15%
 770 가 , 944 yarn
 fiber HALS 가 1076 2626 ,

1100 가 Benzotriazole 가
 500 , HALS 400 , Octoxybenzophenone 160 , Metoxybenzophenone

가 40

가

HALS 가가

Uvicure-2,4 · Uvicure-40 · Uvicure-4M
MIHALS-480

MISORB-BP12가
가

HALS

HALS

가 Tinuvin Chimassob 가

CYNAMIDE가

가 가 Kg 13000 ~ 15000
, HALS 가 Kg 2

1 6000

가

PVC UV
HALS PO

PE, PP, ABS

가

가

가

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