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(65)
(43)

2002-0076712
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(73)

450

(72)

991-2102

848-4 1 101

(74)

:

(54)

0.5 3 %, (B) 0.2 2 %, (C) (N,N- -2- , (A)
) 0.2 5 %, (D) 1 5 % .

, (N,N- -2-) ,
85 % (urethane)
, 가 ;
; ; 가 (prepolymer)

가

2,999,839 3

3

가

가

(yarn)

0.5
가

3 ppm

100 (denier)

4,340,

527

가

WO 00/36195

(huntite)

(N,N- -2-

(hydromagnesite)

가

),

(N,N- -2-

)

가

가)

가

가

(N,N- -2-

0.5 3 %, (B)
) 0.2 5 % (D)
%

1 5 %

0.2 2 %, (C)

(N,N- -2-

, (A)

-4,4'-
P,P-

(A)

(B)

가

(A)

4- (-5-) -(3-(5-t- -4- -m-)-) 3,9- (2-(3-(3-t- -

(B)

(B)

가

(C)

(B)

1,1,1',1'-

-4,4'(
1,6-

-p-)
(N,N-)가

(
1,1,1',1'-

-N,N- -4,4'(
-p-)

가 가
(C) (N,N- -2-

(N,N-)
-2-

(C)

가

(D)

(D)

가 1 μm

가 1 μm

가

가

0.1 5 %

(anatase) (rutile) 가 ,
 , 0.1 2 %
 가 가 가
 가 (A) (D)

518g 2328g(1,800) 가
 80 , 90
 4643g 가
 54g 9.1g 1889g
 , 10 가 ,

(A) (B)
 (C) (N,N- -2-) (D)
 (a₁) () -(3-(5-t- -4- -m-)-) : 가 (Irganox 245,
 (Ciba))
 (a₂) 3,9- (2-(3-(3-t- -4- -5-))-1,1-)2,4,8,10-
 [5,5] : GA-80((Sumitomo),)
 (B)
 1,1,1',1'- -4,4'(- -p-) : HN-150()
 (C) (N,N- -2-) : (SAM, CT,)
 (D) : (Kadox 911, (Zinc Corporation of America))
 (E) p- : (Methacrol 2390^R D, (Dupont),)
 1

[1]

	(: (%))		(: (%))		
	1	2	1	2	3
(A)					
(a ₁) () -(3-(5-t- -4- -m-)-)	1.5	-	-	1.5	-
(a ₂) 3,9- (2-(3-(3-t- -4- -5-))-1,1-) 2,4,8,10- [5,5]	-	1.5	-	-	-
(B)	1.0	1.0	1.0	-	-
(C) (N,N- -2-)	1.0	1.0	1.0	1.0	0.58
(D)	3.0	3.0	3.0	3.0	3.0
(E) p-	-	-	-	-	1.5

1 0.5 % 1 2 1 3 0.1 %
 , 250 4 40
 (KT-400, 4 inch, 400 , 가 (Nagakaseiki) ,)
 , 10 cm ,

- UNITOL CT-81() 2g/ UNITOL-SMS()
- 3g/ 가
- (1) (Accelerated Weathering Tester, (Q-Panel))
 UV-B 60 24
 (Color-view)(가 (Gardener),) "b" ()
- (2) NO_x 가 NO_x 가 가 300 mL, 85% 8 mL (NaNO₂)(10 g/L) 40 mL 24 NO_x 가
 (Color-view)(가 (Gardener),) "b" ()
- (3) 가 3 ppm, pH = 7.0 30 L 72 (NaClO)
 , ASTM D1291 (Color-view)(가 (Gardener),) "b" ()
- (4) (strength) 가 50% 3 ppm, pH = 7.0
 72 가 Instron 4301() (cross head speed) 300 mm/
 5 cm , 1 kg (Cell) 1 :

$$\text{강력유지율}(\%) = \frac{S}{S_0} \times 100$$

(S₀: , S:)

[2]

	(b)	(b)	NO _x 가 (b)	(b)/	
	1	3.2	5.9	7.1	4.0/82
	2	3.3	5.7	7.4	4.2/83
	1	4.0	14.4	8.0	6.0/77
	2	6.2	7.4	14.5	7.1/74
	3	4.2	12.4	9.2	7.2/75

2 , , NO_x 가 b 가
 NO_x 가 , ,
) , , 가 (N,N- -2-
 가 ;

1.

- (A) 0.5 3 %;
- (B) 0.2 2 %;
- (C) (N,N-1,5-dimethyl-2-pyridone) 0.2 5 %;
- (D) 1 5 %

2.

- 1 (A) (3-(5-t-butyl-4-methylphenyl)-2,4,8,10-tetrahydro-1,4-benzodiazepin-3-ylidene) [5,5]

3.

- 1 (B) 1,1,1'-trifluoro-4,4'-bis(p-nitrophenyl)-1,6-diphenyl-1,3,5-triazine-2,4,6-triylidene-N,N'-diphenyl-1,3,5-triazine-2,4,6-triylidene