

()

1.

20~30 ()

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() . (high tech)

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, 10~15

가

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가

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ATI Fiber world “What’s new in Western Europe?” “What’s new in
Eastern Europe?”

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Du Pont, Bayer, Mitsubishi

, ,

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(American Chemical Society)가 “Approaches to property limits in polymers” Scanticon-Princeton

IUPAC(International Union of Pure and Applied Chemistry) “Polymers for advanced technologies”

가 .

2.

Princeton ACS Du Pont

Celanese 가 , Du Pont W.Sweeny 가 ,
17 ,

.

가

, (thermotropic) (celanese

H. N. Yoon M. Jaffe) < 1h> - (semi-stiff)

HM-50(S. Ozawa) .

1987

가 ,

(heterocycle) (, PPBT) < 1a, 1b> .

Princeton

가,

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3. IUPAC

“Polymers for advances technologies”

IUPAC Menachem Lewin 가
ACS . 100
300 가 가
.
3가 ,
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가
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, , , (matrix)
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가
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가 Brookly Herman F. Mark
, 가 가
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가 .

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가

가 가 가

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(가

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4.

가 .

Rockefeller W. B.

Merrifield ,

. Merrifield, R. Epton 가

F. Hudecz

.

5. (controlled drug release)

, ,

(carrier) .

가 .

가 .(
Braunschweig GBF Biotechnology Institute J. Klein Tel Aviv A.
Freeman)

Yavne Soreg Haruvy Rajbenbach
TiO₂
(, , PVA
) .
, 4- ,
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6.

, ,
.
(UHMW PE)
(R. M. Streicher,
Sultzer Bros., Winterthur, Switzerland), UHMW PE
.

가 가 Ron Carew
.
가
(Hebrew
D.Cohn Hani Younes) (Kyoto
T. Nakamura) .
.

. Aachen

(German Wool Research Institute) Buddy Rattner 2

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7.

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(, ,) ,

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가 Du Pont Stephanie kwolek

149 ,

2.4GPa, 165GPa,

1.3%, 1% (29 49 1/4 1/3)

.

PPBT

< 1a, 1b>.

.

Teijin “Technora” < 1c>

.

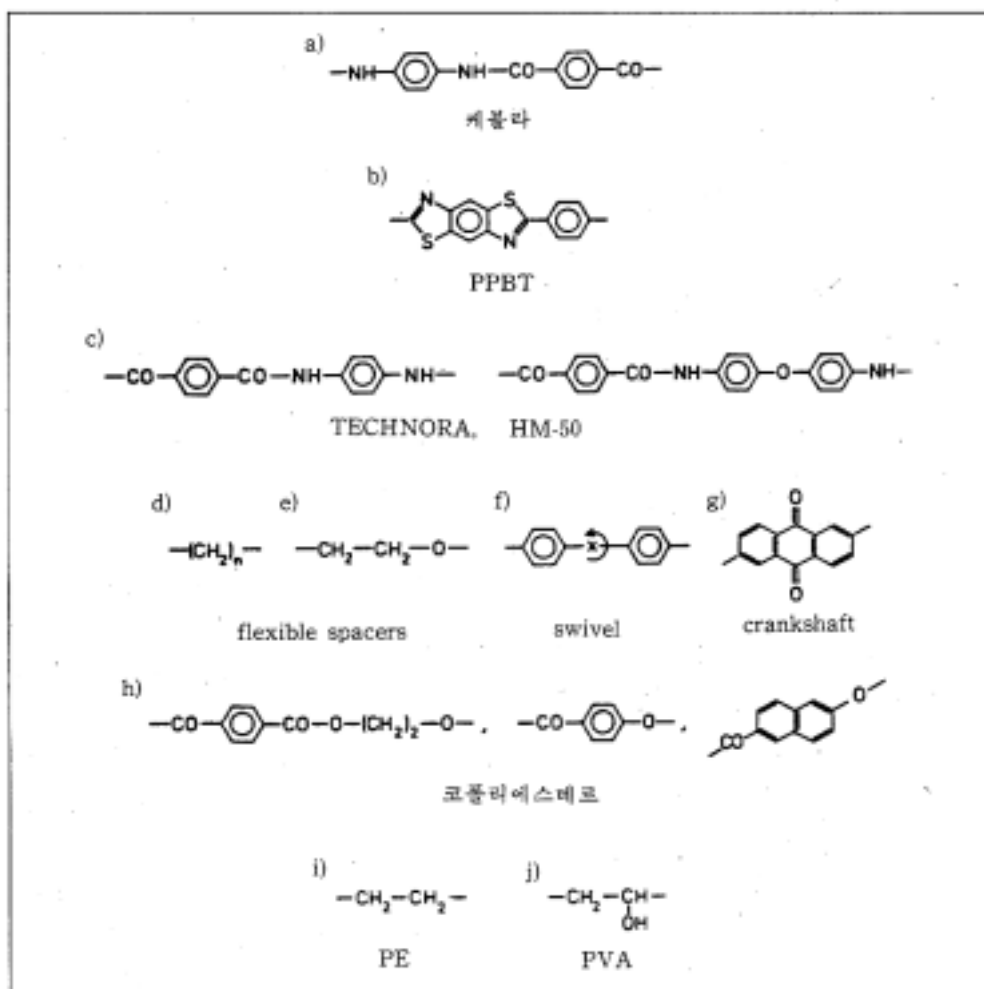
가

, <

1d~1g>가 .

(thermotropic)

가 . p-
Celanese



< 1 >

8. (mesogenic) (side-group)
(flexible chain)

(, Fresnel) .

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가 .

가 (German Plastics

Institute) J. H. Wendorff Mainz W. Kreuder, H. Ringsdorf가

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Illinois Weizmann Institute of Science

I. Cabrera

. (spiropyran)

가 merocyanine

. merocyanine

가 .