

• • , • • , • • , • • ,  
• • , - , ” , •

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Kinetics and thermal properties of new polymer networks based on oligoester-amide resins with their interactions with furfuryl glycidyl ether at the presence of optimal concentration of initiator and optimal time of ultraviolet radiation, complex onium catalysts have been investigated by differential scanning calorimetry. Ecologically pure, protective coatings with high mechanical properties have been obtained.

[1]

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( ) [2],

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( . 1.),

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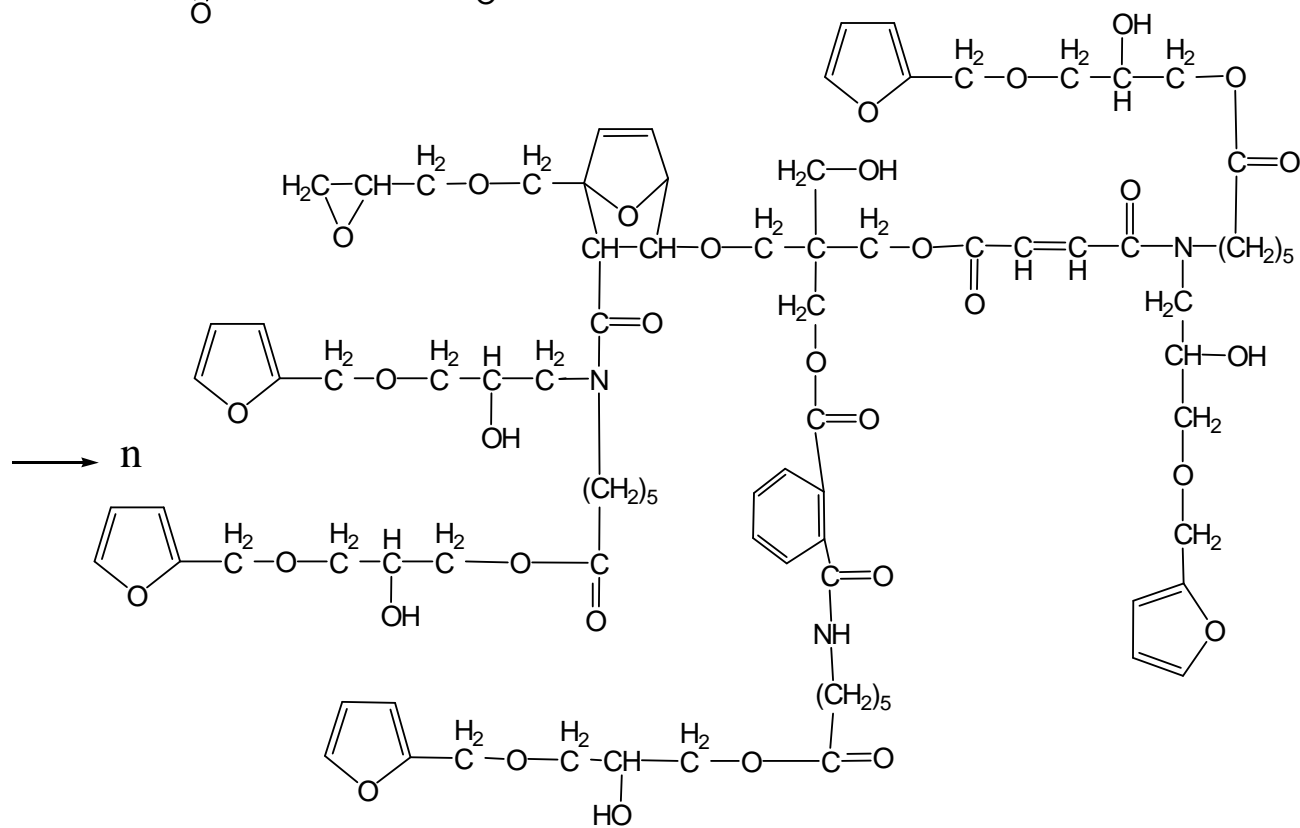
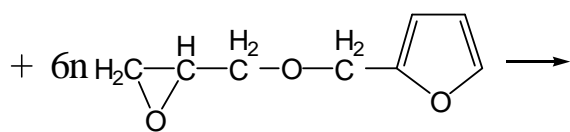
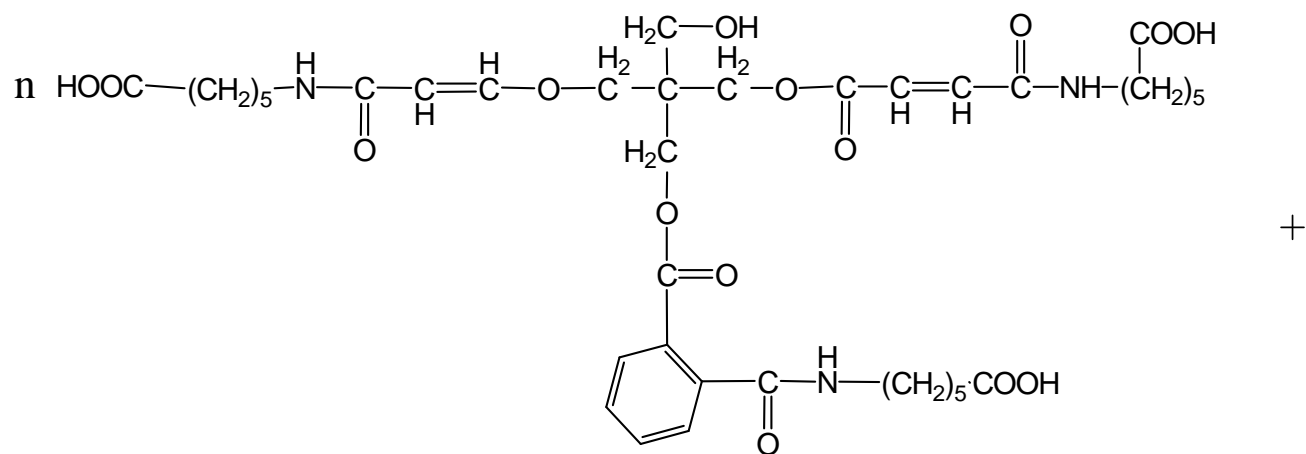
.

[3],

[4]

-

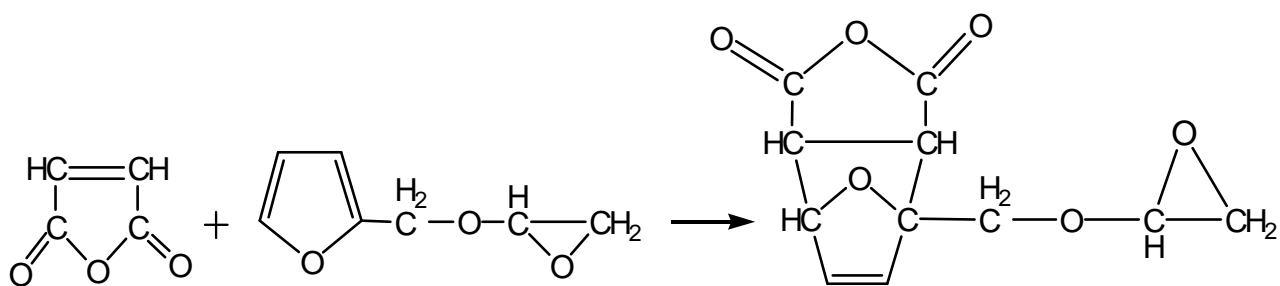
( ) ( . 2.)



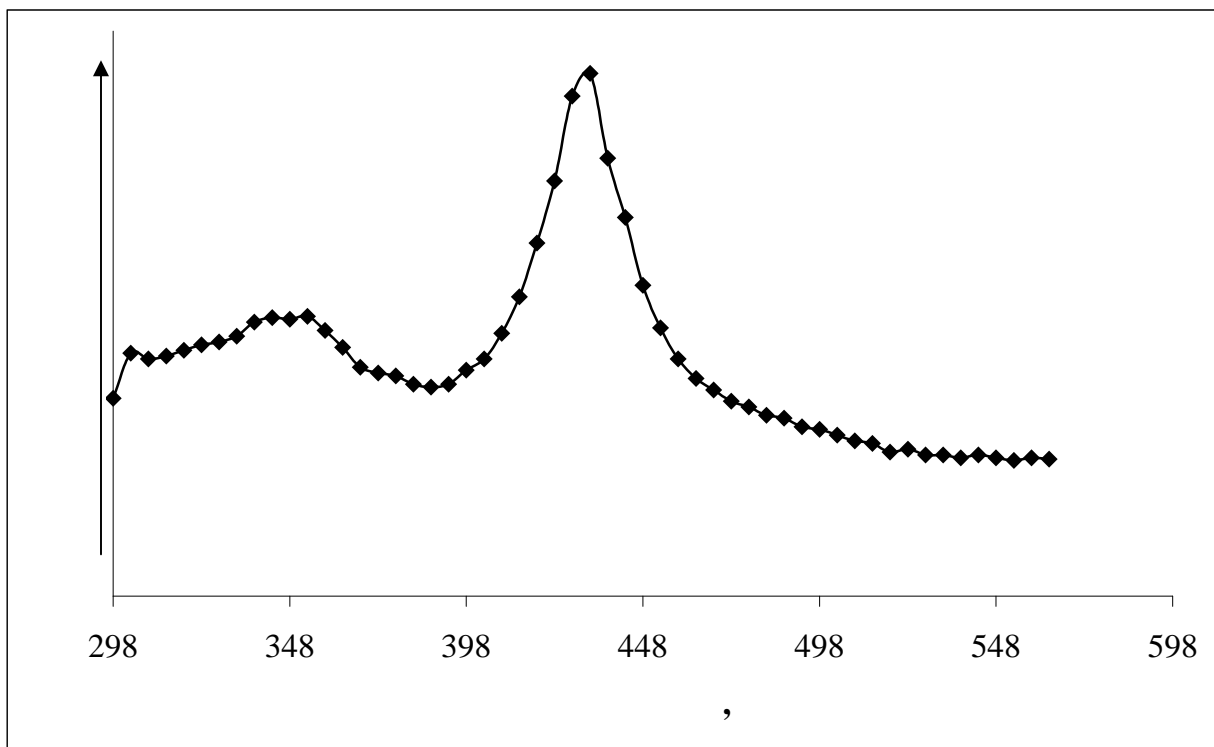
. 1.

+ , “ ” ,  
85 ° ( .3.),

30 ° ,



.2.



.3.

165 °

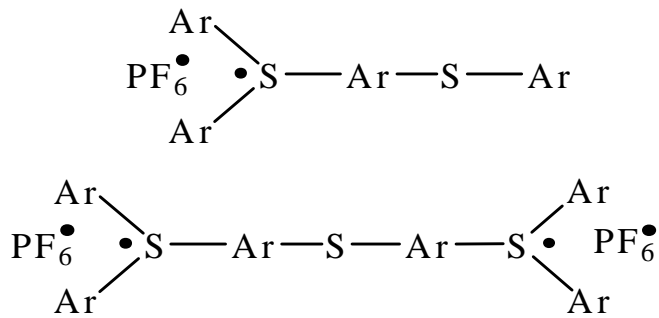
( “ ” , )

( ) 1 ( .1)

:

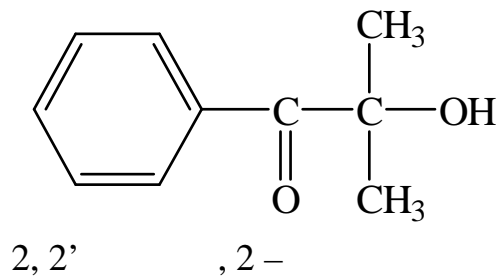
- sarcat 1011,

:



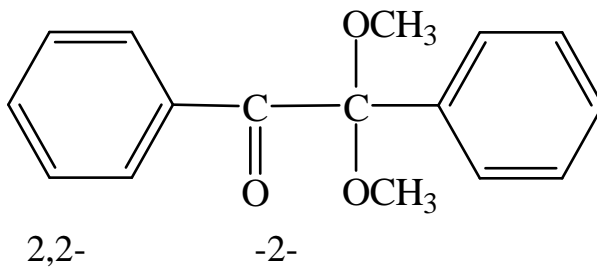
- Daracur 1173,

:



- rgacur 651,

:



:

-

(“ ”);

-

(“ ”).

. 4.

. 5.

-

20 .

97 – 85 %

55 – 65 %

.

-

3 – 4 % ( . ) (

– 5 %).

-

,

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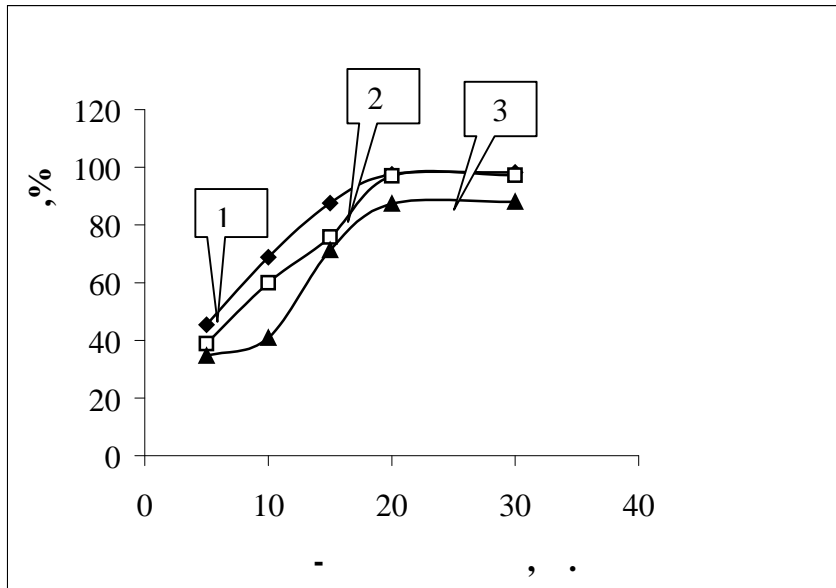
.

. 3

5 – 10 .

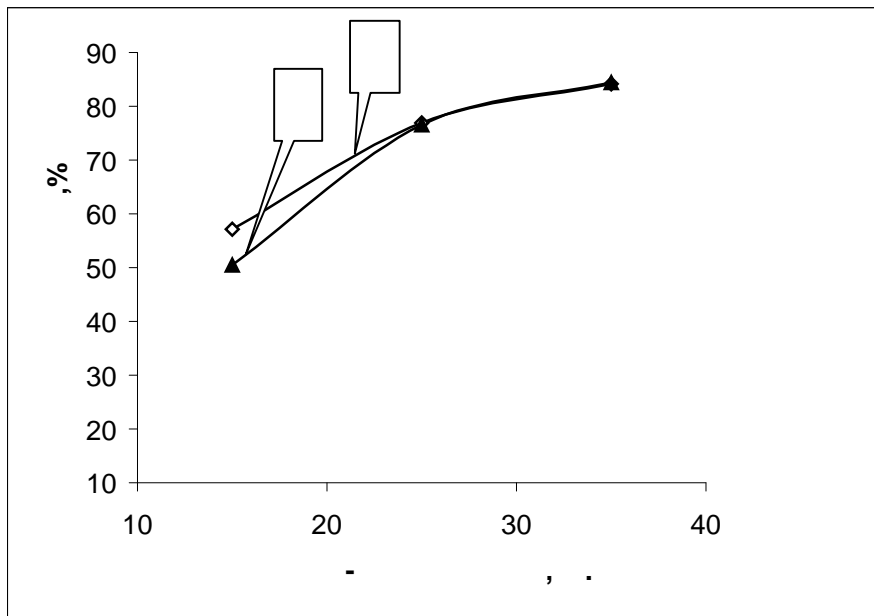
-

, 10 – 15 . – . –  
 40 ., – – 59 %.



.4.

+ : 1) sarcat 1011 ; 2) daracur 1173 ; 3) irgacur 651.



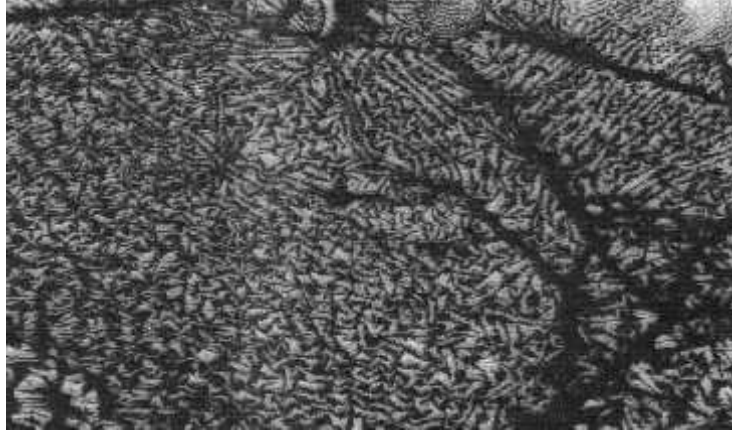
.5.

+ “ ”- ; “ ”-

5 – 10 .

( . 6).

10



. 6. + + sarmat 1011

20 . 0,884, 0,858, 0,849 . . .  
 sarmat 1011, daracur 1173 irgacur 651 ,  
 5 – 10 .

:

-

;

-

-

1.

-

1 40 / .

0,67

, 0,23

-

1

185 – 195 °

2

1

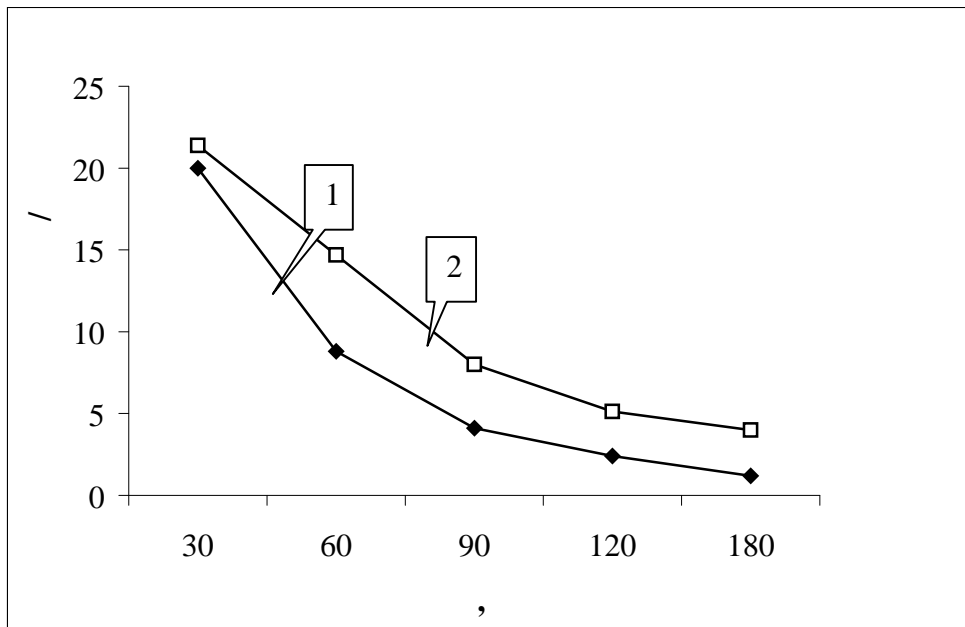
46,89 %.

130 – 150 °

. 7.  
(Et<sub>3</sub>PhCH<sub>2</sub>N · FeCL<sub>4</sub>)

1+

daracur 1173,



1) 1+ + (Et<sub>3</sub>PhCH<sub>2</sub>N · FeCL<sub>4</sub>); 2) 1+

. 8.

. 3 5 .,

30 .

0,5 . .,

, 7

0,61 . .,

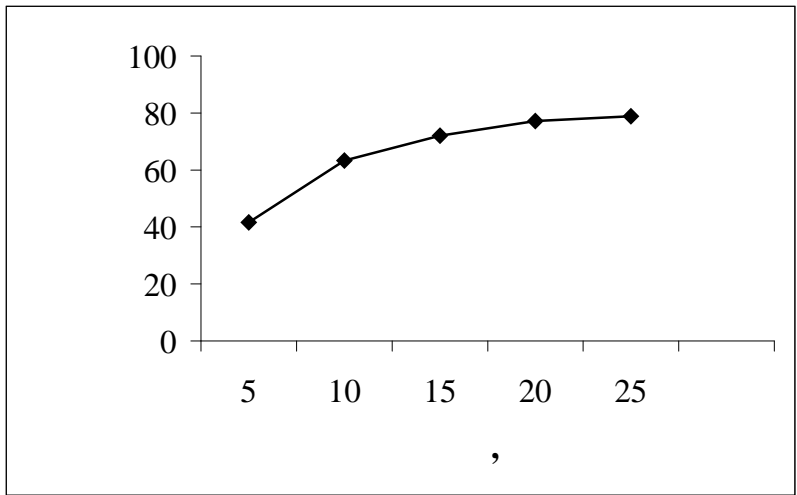
– – 87 %.

0.75 . .

– 91 %.

sarcat 1011

sarcat 1011



. 8.

1+ + daracur 1173

daracur 1173 7

( ). - 72 %, -

0,44 . .

1.

- 18 - 40<sup>0</sup> .

2.

3.

( - -

: **1.** . . . . . //

. - 2006, 3, . 77 - 82. **2.** . . . . .

// . - 2005, 5, . 129 - 133. **3.** . . . //

, 1960, . 243. **4. Jotterand Nathalie, Vogel Pierre** //Tetrahedron Lett. 1999, 40, 30, . 5499-5502. . 2002, 11, 19 101.

13.10.06