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(4'-hydroxyphenyl)propane, 3,3-bis(4'-hydroxyphenyl)phthalide, 2,2-bis(4'-hydroxyphenyl)propane, 3,3-bis(4'-hydroxyphenyl)phthalide, 3,5-dibromo-4-hydroxybenzoic acid, 2,2-bis(4'-hydroxyphenyl)propane, 3,3-bis(4'-hydroxyphenyl)phthalide, 3,5-dibromo-4-hydroxybenzoic acid.

## EFFECT OF HALOGEN-CONTAINING MODIFIER ON THERMAL PROPERTIES OF AROMATIC POLYESTERS

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**Abstract.** Copolyarylates based on 2,2-bis(4'-hydroxyphenyl)propane, 3,3-bis(4'-hydroxyphenyl)phthalide, an equimolar mixture of these bisphenols and acid chlorides of various carboxylic acids were synthesized by the method of low-temperature polycondensation using the mechanism of acceptor-catalytic polyesterification. The structures of the obtained polyesters were studied and the effect of the modifying agent on some thermal properties of the polyesters was investigated.

**Keywords:** acceptor-catalytic polyesterification, 2,2-bis(4'-hydroxyphenyl)propane, 3,3-bis(4'-hydroxyphenyl)phthalide, 3,5-dibromo-4-hydroxybenzoic acid.

[1–5].

6 %

2023–2035 . 2035  
30 %.

[6-12].

: 2,2- (4'- ) ( ) 3,3- (4'- )  
) ( ).  
175-180 ° , - 220-250 ° [3, 4].

[10-16].

4-

4-

4,4- 3,3- -(4- )  
3,5- -4-  
4-

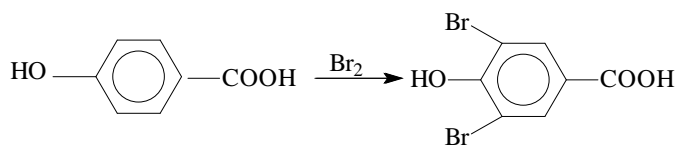
120 °

75 ° .

1 .

110-

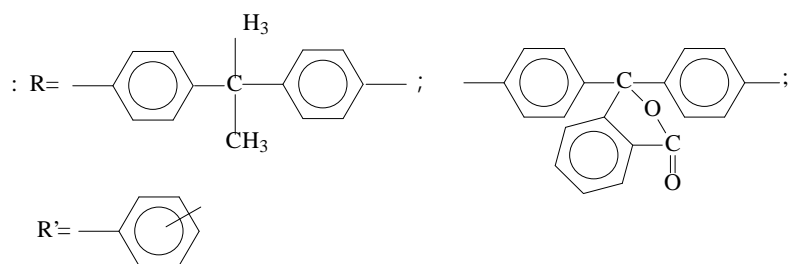
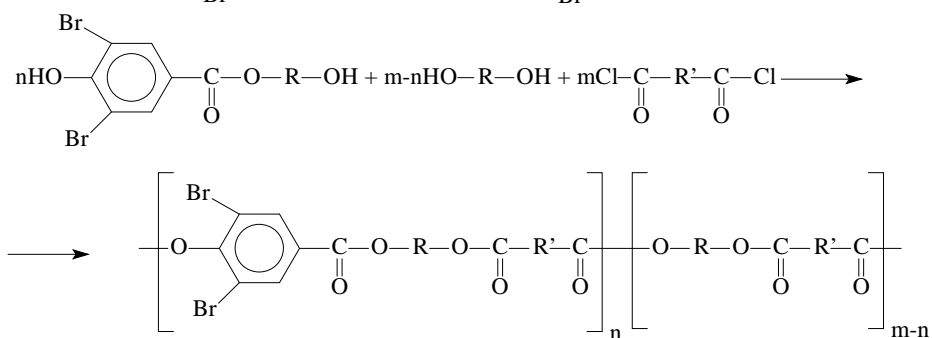
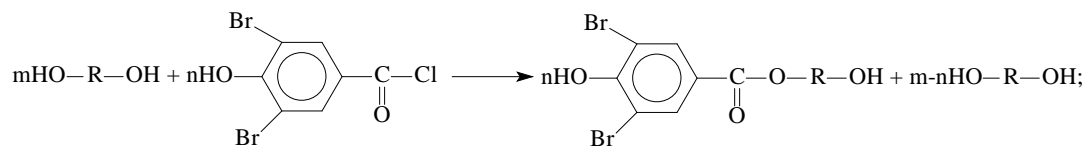
110 ° . 3,5 -4- 80-85 % .  
267-268 ° .



[17].

HCl. 1,2- 2 3,5- -4-

-4-



1735–1740  $\text{cm}^{-1}$ ,

1500–1600  $\text{cm}^{-1}$ ,

3300–3600  $\text{cm}^{-1}$

680–690  $\text{cm}^{-1}$

3,5-

-4-

(50:50 %).

( 10 %)

3,5-

-4-

20 %

3,5-

-4-

4-

3,5-

-4-

( 1 10 %),

3,5-

-4-

2 ,

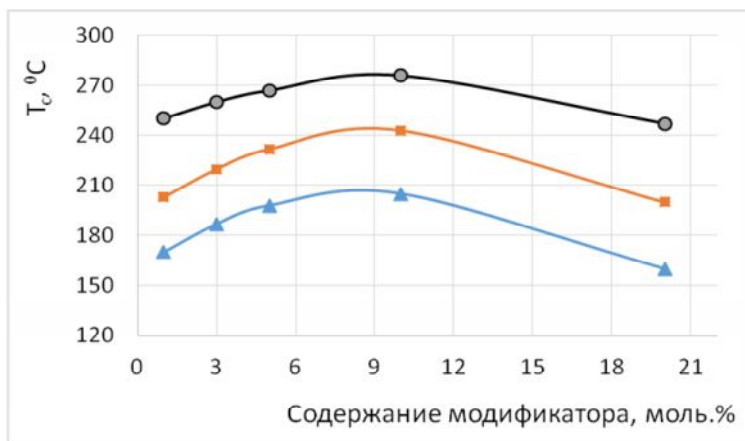
200 300 Å.

10 50 %

3,5-

-4-

( ) ( 10 .%) 3,5- 4- ( ) 10 .% ( .1).



.1. ( ) 4,4 - ( ) ( )

10 .% (274–276 °) (340–345 °) 4,4- 205–207 ° 270–273 ° 3,5- 4-

10 .% 3,5- 4-

2 %-

420 °

10 .%

4,4 -

3,5- 4- 5–10 .%,

2,2- (4²-

) / 3,3- (4²-

3,5- 4-

