(2) It has been found that there is an increase in the size of both the crystal-
line and amorphous regions during the crystallization of polypropylene and ca-
pron annealed in the stretched state. The degree of crystallinity of polypropyl-
ene increases somewhat, and that of capron remains practically unchanged.

Translated by V. ALFORD

REFERENCES

SYNTHESIS OF POLYPHOSPHINITES BY TRANSESTERIFICATION*

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IN EARLIER communications we described the synthesis and properties of di-
osphites [1-6]. It was shown that polymers could be produced by the Arbuzov
regrouping method from diphosphites containing a common aromatic radical.

Continuing the research in the sphere of polyphosphites and polyphosphinites,
we have studied the reaction of the transesterification of the di-methyl and di-
ethyl esters of phenylphosphinous acid (MP and EP), and the ethyl ether of
ethylphosphinous acid (EE) with certain glycols, leading to the formation of
polyalkylene glycolphosphinites

\[
n(\text{RO})_2 \text{P} - \text{R}' - \text{OH} + \text{RO} \left\{ \begin{array}{c} \text{P} - \text{OR}' \text{O} - \\ \text{R}' \end{array} \right\} \text{H} + (2n-1) \text{ROH}.
\]

We had already successfully used the method of transesterification to prepare
polyalkylene glycolphosphonates [7].