

# INQUIRY QUESTION

we need = bond to  
vulcanize.

The polymer made by cationic polymerization of isobutylene is not strong enough to serve as a replacement for natural rubber. If, however, the polymerization takes place in the presence of about 1% isoprene and the resulting polymer then vulcanized, a polymer results which can replace natural rubber. Describe the structure of this polymer and explain why it is stronger than poly(isobutylene).

