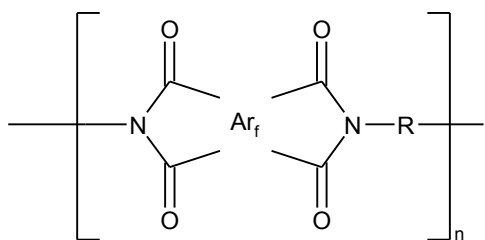
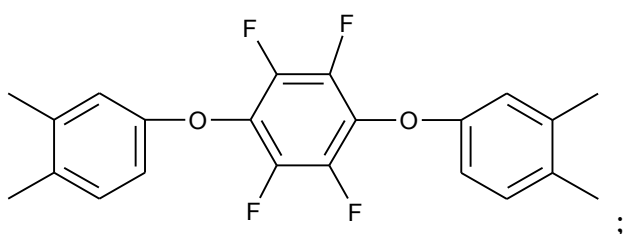


Method for preparing fluorine-containing polyetherimides (FPEIs) as heat-resistant polymers, has general formula:

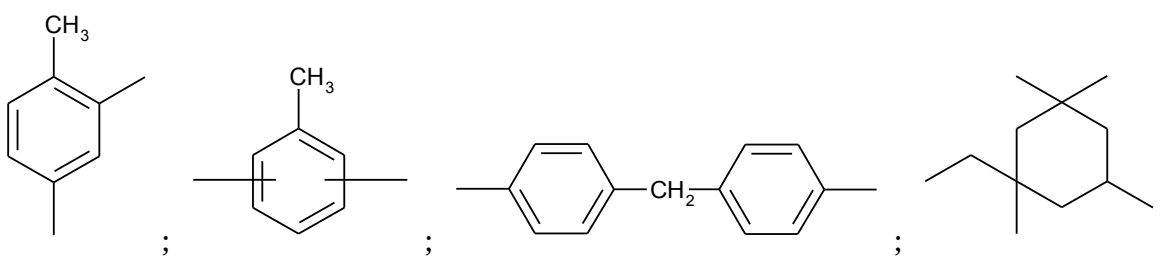


$n=40-60$;

where: Ar_f -



R-



which is carried out by performing a single-stage polycondensation reaction of diisocyanates and dianhydrides with different chemical structures in a solution of aprotic polar solvent, through the interaction of equimolar amounts of diisocyanate and dianhydride, respectively. In this process, a dianhydride containing a tetrafluorobenzene moiety is used