Claims:

1. A process for the production of the poly (arylene ether ketone)s polymer materials comprising the steps of mixing of organic monomers and bases with or without of phase transfer catalysts in a mixed solvent of diphenyl sulfone (DPS) and dibenzyl toluene system at elevated temperature for a time duration.
2. A process as claimed in claim 1 wherein the compatible reaction temperature for reaction is in the range of about 150 ^{o}C to 340 ^{o}C.
3. A process as claimed in claim 1 wherein the compatible the reaction time duration is in the range of about 5 to 25 hours.
4. A process as claimed in claim 1 wherein the method further comprise the steps of collection of products by filtration at elevated temperature and washing.
5. A process as claimed in claim 4 wherein the compatible processing temperature for filtration/collection is in the range of about 50 ^{o}C to 170 ^{o}C.
6. A process as claimed in claim 4 wherein the compatible washing solvent is toluene.
7. A process as claimed in claim 1 wherein the compatible phase transfer catalyst is phosphoniums, ammoniums or crown ethers.
8. A process as claimed in claim 7 wherein the compatible phase transfer catalyst molar ratio is in the range of about 0 to 10%.