

Abstract

PROCESS AND CATALYST FOR HYDROGEN MEDIATED SALINE HYDRIDE INITIATED ANIONIC CHAIN TRANSFER POLYMERIZATION

This invention relates to processes for forming hydrogen mediated saline hydride initiated anionic polystyrene distributions via novel polymerization conditions. This invention also relates to novel hydrocarbon soluble super active saline hydride catalyst and reagent compositions useful in conducting the hydrogen mediated saline hydride initiated polymerizations of this invention. This invention also relates to novel low molecular weight polystyrene polymer composition formed exclusively from styrene and molecular hydrogen as the monomers.

Figure None