

【ABSTRACT】

METHOD FOR PREPARING FINE SPHERICAL POLYCARBONATE
POWDERS AND METHOD FOR PREPARING HIGH MOLECULAR WEIGHT
5 POLYCARBONATE RESIN USING SAME

Provided are a method for preparing fine round
powdery polycarbonate and a method for preparing a high
molecular weight polycarbonate resin using the same.

10 More specifically, provided are a method for
preparing fine round powdery polycarbonate, comprising (A)
polymerizing non-phosgene polycarbonate, (B) extruding the
polycarbonate into fine round powdery amorphous
polycarbonate, (C) surface-crystallizing the fine round
15 powdery amorphous polycarbonate in the presence of a
solvent or dispersion medium, and (D) drying the surface-
crystallized fine round powdery polycarbonate, and a
method for preparing high molecular weight polycarbonate
resin capable of obtaining polycarbonates with various
20 molecular weights ranging from low molecular weights to
high molecular weights by continuously using the obtained
fine round powdery polycarbonate via a solid state
polymerization step. In accordance with the methods, it is
possible to remarkably simplify crystallization of
25 amorphous polycarbonate and thus to realize process

continuousness and economical efficiency enabling commercial mass-production, and to overcome production of high molecular weight polycarbonate, the most serious problem of conventional non-phosgene melt polymerization processes.

Figure 5