~~mass of the~~ bromination solvent and the brominated aromatic polymer composition in the reactor is greater than about 0.015 wt%.

2. A process as in Claim 1 further characterized in that said solution of said aromatic polymer composition in the bromination solvent is a solution containing about 20 to about 40 wt% of said aromatic polymer composition.

3. A process as in Claim 2 further characterized in that said bromination solvent is at least predominately bromochloromethane.

4. A process as in any of Claims 1-3 further characterized in that upon completion of the feed or of the optionally used ride time, the bromination reaction mass is transferred to a reaction vessel containing a dilute solution of hydrazine hydrate in water and the resultant mixture is agitated so that the catalyst and bromine are quenched.

5. A process as in Claim 4 wherein said dilute solution is a 0.1 to 1.0 wt% solution of hydrazine hydrate in water.

6. A process as in Claim 5 wherein the amount of said 0.1 to 1.0 wt% solution of hydrazine hydrate in water is about 0.4 parts by weight of said solution per each pound by weight of brominated aromatic polymer composition present in the bromination reaction mass.

7. A process as in any of Claims 4-6 further characterized in that upon completion of the quenching, the agitation is discontinued, the quenched reaction mass is isolated from the aqueous mixture by means of a phase separation, and optionally, the resultant reaction mass is washed with fresh water.

8. A process as in any of Claims 4-7 further characterized in that the quenched bromination reaction mass is further treated by agitating the quenched bromination reaction mass with an alkaline borohydride solution to decompose polar bromoamine-derived impurities, said treatment being at a temperature in the range of about 25°C to about 80°C and for a time period sufficient for the decomposition to be complete, as evidenced by decolorization of the reaction mass and breaking of any emulsion that may exist.

9. A process as in any of Claims 4-8 further characterized in that the brominated aromatic polymer composition is recovered from the reaction mass by precipitation from near boiling or boiling hot water in the presence of alkaline borohydride, and wherein optionally, prior to said precipitation the reaction mass is dried azeotropically and passed through a solid absorbent to remove polar impurities.