Claims

1. A process of removing volatile compounds from a mixture (M) containing at least one non-volatile polymer and at least one volatile compound to obtain a product (P) which is substantially free of volatile compounds, the process comprising at least the steps of:

   - feeding the mixture (M) into at least one extruder (10) according to claims 1 to 16
   - pressing the mixture (M) through the at least one die plate (26) of said extruder (10)
   - and removing the volatile compounds through the at least one outlet port of said extruder (10)

   wherein the non-volatile polymers are halogenated butyl rubbers.

2. The process according to claim 1, wherein mixture (M) contains from

   i) 10 to 95 wt % of a halogenated butyl rubber and

   ii) from 5 to 90 wt% volatile compounds

   whereby the aforementioned components i) and ii) add up to 90 to 100 of the total mass of mixture (M).

3. The process according to claim 1 or 2, wherein the resulting halogenated butyl rubber has a residual concentration of volatile compounds of less than 1 wt%.

4. The process according to one of claims 1 to 3, wherein the halogenated butyl rubbers are bromobutyl or chlorobutyl rubbers.

Claims

1. A process of removing volatile compounds from a mixture (M) containing at least one non-volatile polymer and at least one volatile compound to obtain a product (P) which is substantially free of volatile compounds, the process comprising at least the steps of:

   - feeding the mixture (M) into at least one extruder (10)
     comprising at least
     - one barrel (24),
     - one or several extruder elements (12, 14) arranged inside the barrel (24),
     - at least one outlet port for removing volatile compounds
       whereby the extruder further comprises at least
       - one perforated die plate (26) fixed to the barrel (24) in flow direction (18) before the outlet port.
   - pressing the mixture (M) through the at least one die plate (26) of said extruder (10)
   - and removing the volatile compounds through the at least one outlet port of said extruder (10)

   wherein the non-volatile polymers are halogenated butyl rubbers.

2. The process according to claim 1, wherein mixture (M) contains from

   i) 10 to 95 wt % of a halogenated butyl rubber and

   ii) from 5 to 90 wt% volatile compounds

   whereby the aforementioned components i) and ii) add up to 90 to 100 of the total mass of mixture (M).

3. The process according to claim 1 or 2, wherein the resulting halogenated butyl rubber has a residual concentration of volatile compounds of less than 1 wt%.

4. The process according to one of claims 1 to 3, wherein the halogenated butyl rubbers are bromobutyl or chlorobutyl rubbers.