thermoforming part were closely bonded together.

In step 3 of Examples 1 and 2 above, the expandable polypropylene (EPP) and the modified expandable polypropylene were molded by injection foaming process. However, a skilled person in the art should be understood that the expandable polypropylene (EPP) and the modified expandable polypropylene can be molded by any other methods capable of producing the desired shape, such as extrusion molding, compression molding and the like.

Although the embodiments of the present invention have been described in details, it should be understood that various alterations or modifications may be made therein without departing from the ~~spirit or~~ scope of the ~~invention~~ described subject matter, and that all modifications or alternatives equivalent thereto are intended to fall within ~~the spirit and scope of the invention as set forth in~~ the appended claims.

Claims

1. A molding method for expandable polypropylene, comprising the steps of:

1) ~~Silk~~ silk screen printing on a plastic sheet;

2) ~~Subject~~ subjecting the plastic sheet to vacuum thermoforming to provide a vacuum thermoforming part;

3) ~~Foaming~~ foaming an expandable polypropylene and simultaneously integratedly molding the expandable polypropylene with the vacuum thermoforming part.

2. The molding method for expandable polypropylene according to claim 1, wherein an ink is used in step 1) for silk screen printing on a plastic sheet, and said ink is an ink for expandable polypropylene.

3. The molding method for expandable polypropylene according to claim 1 or 2, wherein the thickness of said plastic sheet in step 1) ranges from 0.5~2.5mm.

~~4. The molding method for expandable polypropylene according to claim 1, wherein said expandable polypropylene used in step 3) is a modified expandable polypropylene.~~

~~5~~4. The molding method for expandable polypropylene according to claim 1 ~~or 4~~, wherein the operating pressure for the integrated molding in step 3) ranges from 280 kPa to 500 kPa.

~~6~~5. The molding method for expandable polypropylene according to claim 1 ~~or 4~~, wherein the operating temperature for the integrated molding in step 3) ranges from 125℃ to 150℃.

~~7~~6. The molding method for expandable polypropylene according to claim ~~5~~4, wherein the operating temperature for the integrated molding in step 3) ranges from 125℃ to 150℃.

~~8~~7. The molding method for expandable polypropylene according to claim 1 ~~or 4~~, wherein the operating steam time for the integrated molding in step 3) is 25 seconds to 60 seconds.

~~9~~8. The molding method for expandable polypropylene according to claim ~~5~~4, wherein the operating steam time for the integrated molding in step 3) is 25 seconds to 60 seconds.

~~10~~9. The molding method for expandable polypropylene according to claim ~~6~~5, wherein the operating steam time for the integrated molding in step 3) is 25 seconds to 60 seconds.