CLAIMS

1. A packaging cooler box for delivery, comprising:

a bottom portion to form a lower surface upon conversion into a box mode;

a plurality of sidewall portions configured to connect with the bottom portion;

a lid portion configured to connect with one of the sidewall portions, and to face said bottom portion upon conversion into the box mode;

a crease portion formed along the edge of the bottom portion so that the sidewall portions can stand upright;

joint portions configured to join said sidewall portions, to be folded to face itself and to be in close contact with the sidewall portions, upon conversion into the box mode;

easy adhesive portions provided in said joint portions and sidewall portions to maintain the box shape upon conversion into the box mode from a single plane consisting of said bottom portion, sidewall portions, said lid portion and joint portions; and

a compartment configured to be attached to said sidewall portion, as it is rolled down, and to form a refrigerated space inside the roll, the compartment has easy adhesive portions at both ends, wherein the easy adhesive portions in said compartment are configured to be simultaneously attached to any one of the easy adhesive portions formed vertically inside of said sidewall portion,

wherein the easy adhesive portions are capable of being attached and detached repeatedly.

2. The packaging cooler box of claim 1, wherein

said crease portion has grooves formed therein spaced at predetermined intervals.

3. The packaging cooler box of claim 1, wherein

said bottom portion, sidewall portions and joint portions form a single rectangular shape, upon conversion into an unfolding mode.

4. The packaging cooler box of claim 3, wherein

said joint portions each have a rounded corner.

5. The packaging cooler box of claim 1, wherein

said easy adhesive portions provided in said joint portions are formed symmetrically on the joint portions so that, while each of the joint portions is folded, the two opposing faces thereof can be bonded together.

6. The packaging cooler box of claim 5, wherein

said easy adhesive portions provided in said joint portions are formed on said joint portions along the sides which are adjacent to the sidewall portions.

7. The packaging cooler box of claim 6, wherein

said easy adhesive portions provided in said joint portions are formed along the edge of said joint portions.

8. The packaging cooler box of claim 5, wherein

said easy adhesive portions provided in said sidewalls portions are provided on the upper end of the sidewall portions which are in close contact with said joint portions.

9. The packaging cooler box of claim 1, wherein

said lid portion has flaps on which easy adhesive portions are provided, and for the conversion into a portable mode, the easy adhesive portions of said flaps are fixed to those provided in said sidewall portions.

10. The packaging cooler box of claim 1, wherein

said lid portion has a handle outside.