CLAIMS

[Claim 1]

A thermally insulated box comprising:

an outer casing;

an inner casing;

at least one vacuum thermal insulator; and

rigid polyurethane foam,

wherein a first space defined between the outer casing and the inner casing is filled with the vacuum thermal insulator and the rigid polyurethane foam,

wherein the at least one vacuum thermal insulator is disposed at least in right and left side portions and a rear portion of the box,

wherein the first space is filled with the at least one vacuum thermal insulator at a filling rate ranging from 40% to 80%,

wherein a ratio of an area of the at least one vacuum thermal insulator to a surface area of the outer casing is greater than or equal to 60%, and

wherein the rigid polyurethane foam has a flexural modulus greater than or equal to 15.0 MPa.

[Claim 2]

The thermally insulated box of claim 1, further comprising:

a door that includes

an outer plate,

an inner plate,

the vacuum thermal insulator, and

the rigid polyurethane foam,

wherein a second space defined between the outer plate and the inner ~~casing~~ plate is filled with the at least one vacuum thermal insulator and the rigid polyurethane foam, and

wherein a filling rate of the at least one vacuum thermal insulator in a sum of the first space and the second space ranges from 40% to 80%.

[Claim 3]