HEAT TOLERANT AND ISOLATION ZIPPER

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ABSTRACT
A heat tolerant and isolation zipper comprises: two cloth strips made of combustion proof polyester fiber; two teeth strips made of combustion proof polyester fiber; each cloth strip being combined with a respective teeth strip; a zipper seat at a lower side of one teeth strip; a zipper sheet engageable to the zipper seat and at a lower side of another teeth strip so that the two cloth strips are combined. The polyester fiber is polyethylene terephthalate. In the manufacturing process, the PET is added with non-halo phosphorus-reacted and combustion-proof copolymer with high molecular chemical process so as to have the function of heat tolerance and combustion proof. The teeth strip is made by injection of PET or formed by Nylon wires.
HEAT TOLERANT AND ISOLATION ZIPPER

FIELD OF THE INVENTION

[0001] The present invention relates to zippers, and particularly to a heat tolerant and isolation zipper which is suited to furnishings, car decorations, curtains, medical curtains, etc. The zipper is heat tolerant and heat isolated.

BACKGROUND OF THE INVENTION

[0002] Generally, zippers are made of POM (Polyacetal or polyoxymethylene) which is burnable in high temperature so as to destroy the zipper. Some zippers are made of metals which are good heat conductor so that heat will be transferred to clothes or other object through the zipper to destroy the clothes or object.

[0003] Therefore, there is an eager demand for a novel design which can improve the defect in the prior art.

SUMMARY OF THE INVENTION

[0004] Accordingly, the primary object of the present invention is to provide a heat tolerant and heat isolation zipper which is used to furnishings, car decorations, curtains, medical curtains, etc. The zipper is heat tolerant and heat isolated.

[0005] To achieve above objects, the present invention provides a heat tolerant and heat isolation zipper comprising: two cloth strips made of combustion proof polyester fiber; two teeth strips made of combustion proof polyester fiber; each cloth strip being combined with a respective teeth strip; a zipper seat at a lower side of one teeth strip; a zipper sheet engageable to the zipper seat and at a lower side of another teeth strip so that the two cloth strips are combined. The polyester fiber is polyethylene terephthalate. In the manufacturing process, the PET is added with non-halo phosphorous-reacted and combustion-proof copolymer through high molecular chemical process so as to have the function of heat tolerance and combustion proof. The teeth strip is made by injection of PET or formed by Nylon wires.

[0006] The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] FIG. 1 is a schematic view of the heat tolerant and heat isolation zipper of the present invention.

[0008] FIG. 2 shows the cross sectional view of a part of the heat tolerant and heat isolation zipper of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0009] In order that those skilled in the art can further understand the present invention, a description will be provided in the following in details. However, these descriptions and the appended drawings are only used to cause those skilled in the art to understand the objects, features, and characteristics of the present invention, but not to be used to confine the scope and spirit of the present invention defined in the appended claims.

[0100] Referring to FIG. 1, the heat tolerant and heat isolation zipper 1 of the present invention is illustrated. The present invention has the following elements.

[0101] Two cloth strips 2 are made of combustion-proof polyester fiber, such as, Polyethylene terephthalate (PET), the cloth strip 2 is combined with zipper teeth.

[0102] Two teeth strips 3 are made of combustion proof polyester fiber, such as, Polyethylene terephthalate (PET). Each cloth strip 2 is combined with a respective teeth strip 3.

[0103] A zipper seat 4 is at a lower side of one teeth strip 3.

[0104] A zipper sheet 5 is engageable to the zipper seat 4 and is at a lower side of another teeth strip 3 so that the two cloth strips 2 are combined.

[0105] In the manufacturing process, the PET is added with non-halo phosphorous-reacted and combustion-proof copolymer through high molecular chemical process so as to have the function of heat tolerance and combustion proof.

[0106] Moreover, in the present invention, the teeth strip is made by injection of PET or formed by Nylon wires.

[0107] Referring to FIG. 2, the combination of the teeth strips 3 of the heat tolerant and isolation zipper 1 is illustrated. It is illustrated that the teeth strips 3 clamp the cloth strips 2 tightly.

[0108] Advantages of the present invention will be described herein. The two cloth strips 2 are made by combustion-proof polyester fiber, such as, Polyethylene terephthalate (PET) and the two teeth strips 3 are also made by combustion proof polyester fiber, such as, Polyethylene terephthalate (PET). The zipper made of PET has preferred feeling as held by hands and can be dyed easily with preferred color effect.

[0109] The present invention is thus described, it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the present invention, and all such modifications as would be obvious to one skilled in the art are intended to be included within the scope of the following claims.

What is claimed is:

1. A heat tolerant and heat isolation zipper comprising:
   - two cloth strips made of combustion proof polyester fiber;
   - two teeth strips made of combustion proof polyester fiber;
   - each cloth strip being combined with a respective teeth strip;
   - a zipper seat at a lower side of one teeth strip;
   - a zipper sheet engageable to the zipper seat and at a lower side of another teeth strip so that the two cloth strips are combined together.

2. The heat tolerant and heat isolation zipper as claimed in claim 1, wherein the polyester fiber is polyethylene terephthalate.

3. The heat tolerant and heat isolation zipper as claimed in claim 2, wherein in the manufacturing process, the PET is added with non-halo phosphorous-reacted and combustion-proof copolymer through high molecular chemical process so as to have the function of heat tolerance and combustion proof.

4. The heat tolerant and heat isolation zipper as claimed in claim 2, wherein the teeth strip is made by injection of PET or formed by Nylon wires.

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