~~What is claimed is~~Claims:

1. A method for preparation of a polyester/glyoxalated polyvinyl alcohol semi-interpenetrating polymer network hot-melt adhesive, ~~comprising~~including the steps of:

1) adding dimethyl terephthalate, another dibasic ester, 1,4-butanediol, other diols and an organotin catalyst in a reactor to conduct a transesterification reaction in a nitrogen atmosphere at a reaction temperature of 140~180°C with a vapor temperature maintained at 65~90°C and terminating the transesterification reaction when an amount of distillation of a monohydric alcohol byproduct reaches greater than 95% of a theoretical amount;

2) after the reaction temperature is maintained for a period of time, adding in a phosphite-based stabilizer and a polycondensation catalyst and increasing the temperature to 160~240°C to conduct a polycondensation reaction under a reduced pressure for 0.5~1.5 hours to produce particles of a copolymer, and freezing and pulverizing the particles of the copolymer to produce a powder of the copolymer; and

3) uniformly blending a mixture of polyvinyl alcohol/glyoxal with the powder of the copolymer produced in step 2) at ambient temperature to produce the polyester/glyoxalated polyvinyl alcohol semi-interpenetrating polymer network hot-melt adhesive,

wherein the another dibasic ester is selected from dioctyl phthalate, 1,6-dibutyl adipate, 1,10-dibutyl sebacate, 1,6-dimethyl adipate or dimethyl phthalate;

wherein a molar ratio of dimethyl terephthalate to the another dibasic ester is 1 : 0.2~0.35;

wherein the other diols are one or more selected from the group consisting of ethylene glycol, 1,6-hexanediol, 2,2,4-trimethyl-1,3-pentanediol, neopentyl glycol and

1,3-propanediol;

wherein a molar ratio of 1,4-butanediol to the other diols is 1 : 0.1~0.35;

wherein a molar ratio of total ester groups to total hydroxyl groups is 1 : 1.1~1.8,

where the total ester groups refer to ester functional groups in dimethyl terephthalate and the another dibasic ester,

the total hydroxyl groups refer to hydroxyl functional groups in 1,4-butanediol and the other diols;

wherein the mixture of polyvinyl alcohol/glyoxal ~~comprises~~includes 13%~37.5% by weight of glyoxal; and

wherein the mixture of polyvinyl alcohol/glyoxal accounts for 0.2%~0.5% by weight of the powder of the copolymer produced in step 2).

2. The method of claim 1, wherein the organotin catalyst is butylstanoic acid in an amount accounting for 0.02%~0.04% by weight of dimethyl terephthalate; and wherein the polycondensation catalyst is tetrabutyl titanate in an amount accounting for 0.02%~0.04% by weight of dimethyl terephthalate.

3. The method of claim 1, wherein the phosphite-based stabilizer is triphenyl phosphite in an amount accounting for 0.01%~0.09% by weight of dimethyl terephthalate.