

ABSTRACT

The present disclosure relates to radiative cooling fabrics and products. The radiative cooling fabrics comprise a flexible substrate layer and a functional layer stacked in order. The functional layer comprises a first functional layer with a thickness of 10 μm to 200 μm . The first functional layer comprises a first functional resin and a first functional filler dispersed in the first functional resin. A mass fraction of the first functional filler in the first functional layer is in a range of 1% to 20%. An emissivity of the radiative cooling fabrics in the wavelength of 7 μm to 14 μm is not less than 80%. A reflectivity of the radiative cooling fabrics in the wavelength of 300 nm to 2500 nm is not less than 80%. An average value of warp recovery angles of the radiative cooling fabrics is greater than or equal to 95°, and an average value of the weft recovery angles of the radiative cooling fabrics is greater than or equal to 91°. The products thereof are at least partially made of the radiative cooling fabrics.

Figure 1