

What is phase change materials (PCM) based latent heat storage?

Among the various thermal energy storage methods, phase change materials (PCM)-based latent heat storage is one of the most efficient technologies being actively pursued owing to its operational simplicity and comparable energy storage density .

How reversible are PCM composites for thermal energy storage?

The PCM composites reversibly transform from white rigid materials at 35 °C to super-elastic materials with a light transmittance of 88.5% at 65 °C (fracture strain of 450% and fracture stress of 2600 kPa). The PCM composites for thermal energy storage combine large latent heat (79.9 J g⁻¹) with reliable one-way shape memory function.

How to overcome liquid leakage and low thermal conductive defects of organic PCMs?

To overcome the liquid leakage and low thermal conductive defects of organic PCMs, the shape-stable phase change materials (ss-PCMs) were prepared using the porous matrixes as the supports of organic PCMs [10,11].

Are polyethylene glycol & PCM composites leakage proof?

Study on the different reaction parameters Leakage proof performance evaluation of polyethylene glycol (PEG) and PCM composites. Shape stability and the ability to prevent leakage are among the most important performance of PCMs and are directly related to their practical application.

How do porous materials avert leakage?

Porous materials, for instance, are adept at absorbing PCM and harnessing capillary force to avert leakage [20]. An alternative approach involves confining PCM within a protective shell, effectively preempting both leakage and extraneous interactions [21].

Are solid liquid phase-change materials prone to leakage?

However, the vulnerability of solid-liquid phase-change materials to leakage during the phase-change process limits their development and application in practice. Herein, the enhancement of the shape stability of phase-change materials is achieved through an organic-inorganic composite.

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