

smartPCM

Phase Change Materials

Keeping thermal energy where it is needed.

The Technology

smart PCM materials are based on physical fixation of different paraffins within a polymeric network structure.

Following main advantages come along with smartPCM:

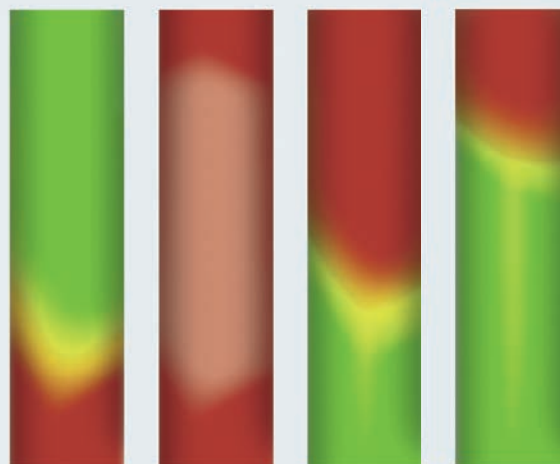
- Thermoplastic processability (e.g. injection molding)
- Adjustable working (melting) range
- 2 – 4 times the thermal capacity of water

Fields of Application

smartPCM materials can be used in various fields where you need a controlled temperature. Typical areas of application are the air conditioning of buildings (hot/cold), storage of waste heat and re-use of it, home appliances like dishwasher, washer, dryer and refrigerator to improve energy efficiency level and therefore safeguarding natural resources, cold or warm storage of medical drugs or food.

Standard Products

smartPCM is available as granules which can be used in typical thermoplastic processes, as ready-to-install sheets (e.g. for use as home construction material) or liquid PCM-Slurries which can substitute water or air as heat transporting medium. The standard working temperature can be adjusted in a range of approximately -10°C to 90°C .

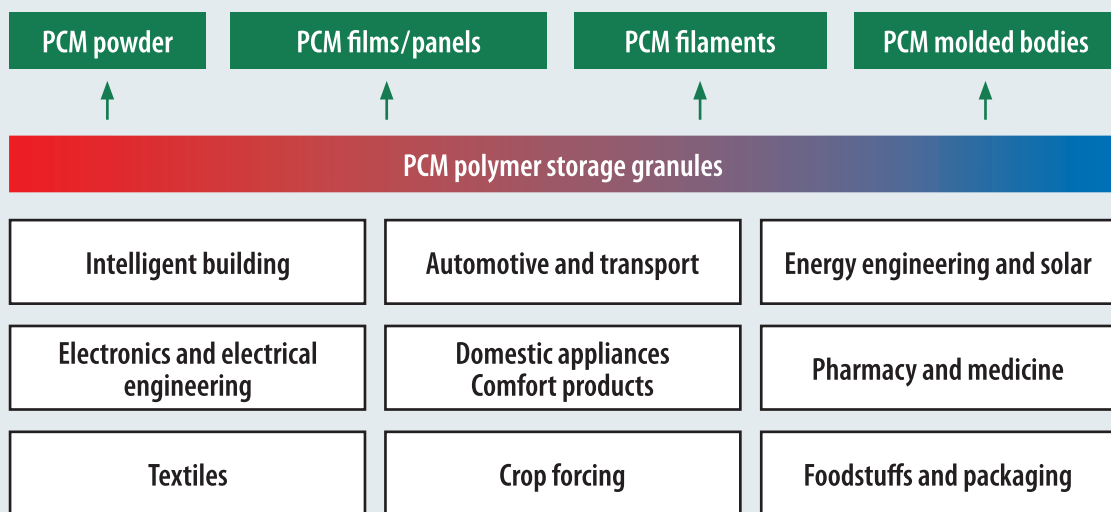


Innovations characterize the range of products

Customized Products

With outstanding research & development experience from the TITK institute, we have the ability to design your customer requests into product features. With more than 60 years of research

activity in plastics and fiber development we can assist you in tackling your tasks today to be successful tomorrow!



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Please contact us if you have any further questions or would like to have more information.

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