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Epoxy resin (VII) based on tris (hydroxyl phenyl) methane is one of the important epoxy resins used in high performance applications. At

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in the 1:1 weight ratios to suspend on epoxy resin with different fiber lengths such as 1, 2, P and 4 cm.

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morphology, and the physical, mechanical, and thermal properties of epoxy-based nanocomposites were investigated using scanning electron microscopy (SEM), density, void content, water absorption, tensile, flexural, impact strength, and thermogravimetric analyses.

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The thermal properties of epoxy-based binary composites comprised of graphene and copper nanoparticles are reported. It is found that the

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[synergistic] filler effect, revealed as a strong enhancement of the thermal conductivity of composites with the size [dissimilar fillers, has a well-defined filler loading threshold.

Thermal Properties of the Binary [Filler Hybrid Composites ...

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The thermal properties of the organic-inorganic hybrid materials based on DGEBA epoxy resin and nano-Al<sub>2</sub>O<sub>3</sub> or nano-SiC particles were examined using a range of techniques. The T<sub>p</sub> of the DGEBA/nano-Al<sub>2</sub>O<sub>3</sub> and DGEBA/nano-SiC composites shifted towards a lower temperature with

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Adhesive Reinforced With increasing filler content, i.e., nano-Al<sub>2</sub>O<sub>3</sub> or nano-SiC content.

Thermal properties of epoxy resin/filler hybrid composites ...

The thermal properties of carbon fiber/epoxy composites were characterized using prepregs with

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different fabric weaves including unidirectional, eight-harness satin, and plain weave. Results...

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In general, uncured epoxy resins have only poor mechanical, chemical and



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heat resistance properties. However, good properties are obtained by reacting the linear epoxy resin with suitable curatives to form three-dimensional cross-linked thermoset structures. This process is commonly referred to as curing or gelation process.

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At room temperature, epoxy-based SMP (ESMP) shows an elastic modulus of about 1 GPa, styrene-based SMP (SSMP) has an elastic modulus of less than 1 GPa, while the elastic modulus of shape-memory

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polyurethane (SMPU) is only around 200 MPa,.

Nanocomposites of epoxy-based shape memory polymer and ...  
Mechanical & Thermal Properties of Epoxy Based Hybrid Composites Reinforced with Jute / Sansevieria

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10.1007/s12221-017-7417-z, 18, 10, (1995-2004), (2017).

Synthesis, characterization and thermal properties of ...

Similarly, Zhao et al. studied the thermal properties of silica aerogel/epoxy composites and

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discovered that, at 60 wt% aerogel particles, a thermal conductivity of  $105 \text{ mWm}^{-1} \text{ K}^{-1}$  could be achieved, in addition to an increased serviceability temperature .

Investigation of the effects of silica aerogel particles ...

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The improvement in thermal conductivity for the epoxy hybrid composite containing 20% SiC, 20% Gr and 60% epoxy is 136% when compared with neat epoxy. Significant

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Adhesive Reinforced With improvement in the thermal conductivity is observed in 40% filled epoxies. 9

Enhanced thermal and electrical properties of epoxy/carbon ...

After a bio-based epoxy resin, sorbitol polyglycidyl ether (SPE) was mixed

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with a flavonoid, quercetin (QC) in tetrahydrofuran at an optimized epoxy/hydroxy ratio 1/1.2, the obtained SPE/QC solution was mixed with wood flour (WF), prepolymerized at 150 °C, and subsequently compressed at 170 °C for 3 h to give SPE/QC/WF biocomposites (WF content:0, 20, 30,

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Thermal and mechanical properties of sorbitol-based epoxy ...

Shtein et al. reported an ultra-high thermal conductivity (4.72 W/m-K) with good electrical resistivity of epoxy composites based on a hybrid system

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graphene and boron nitride at a total loading of 17 vol%. They concluded that applying a simple and effective dispersion method is a fascinating approach to build an efficient hybrid network that resulted in a large yield of novel packaging materials.

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Since carbon fibers have higher thermal conductivity than polymeric matrices (24.0 W/(m·K) for graphite carbon fibers and 0.17 - 0.79 W/(m·K) for epoxy matrices [1, 2]) fiber

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