



WALMER ENERGY

Double glass component curing





Overview

What is dual curing?

Dual curing is a strategy that utilizes two different processing stages to obtain a material with the targeted properties, effectively combining photo curing with other curing methods.

What are dual-curing materials?

Dual-curing materials are hybrid resins consisting of photosensitive and thermal curing resins that take into account fast curing speeds and excellent mechanical properties, which have been widely used in photo-curing 3D printing in recent years, and their application fields are gradually expanding.

How does thermal curing affect the mechanical properties of composites?

Similarly, after thermal curing, the mechanical properties of the composites increase due to increased bonding between the fibers and the resin matrix and secondary cross-linking to make up for internal defects in the photo-curing resin.

Can Kevlar fibers be cured with dual-curing resin?

Zhao et al. mixed Kevlar fibers and dual-curing resin and employed DLP technology for curing, with the aid of thermal-curing to improve the uniformity of the material. As the fiber content rises, the mechanical properties of the material were improved while the shrinkage rate was reduced.



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