

Pengaruh post-cure dan metode pengujian terhadap depth of cure resin komposit serat sebagai substruktur = Effect of post cure and methods of measurement towards depth of cure fiber reinforced composite as substructure

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Abstrak

Penelitian ini bertujuan untuk mengetahui pengaruh post-cure terhadap depth of cure DOC resin komposit serat dan membandingkan metode pengukuran DOC. Sembilan spesimen EverX Posterior warna A3 yang disinari dengan irradiansi 800-1000 mW/cm² 20 detik dibagi menjadi 3 kelompok: diukur setelah penyinaran dan setelah 24 jam post-cure dengan profil kekerasan Vickers; serta metode ISO 4049. DOC yang diukur setelah penyinaran dan setelah 24 jam post-cure 3,02 0,02 mm dan 3,93 0,03 mm; serta metode pengukuran ISO 4049 4,88 0,13 mm. Disimpulkan terdapat peningkatan bermakna DOC yang diukur setelah 24 jam post-cure, dan metode ISO 4049 menghasilkan DOC bermakna lebih tinggi dari profil kekerasan Vickers.

This study aims to identify the effect of post cure towards depth of cure DOC fiber reinforced composite and compare DOC measuring methods. Nine specimens of EverX Posterior shade A3 cured with light irradiation 800 1000 mW cm² 20s divided into 3 groups measured after curing and after 24 hours post cure with Vickers microhardness profile and ISO 4049 method. DOC that measured after curing and after 24 hours post cure are 3,02 0,02 mm and 3,93 0,03 mm and with ISO 4049 method 4,88 0,13 mm. It was concluded that DOC measured after 24 hours post cure is significantly higher than immediately after curing, and ISO 4049 method produce significantly higher DOC than Vickers microhardness profile.