修復材料,結合面設計和催老化劑對義齒基底修復的橫向強度之影響

Effects of Repair Material, Joint Surface Contour and Weathering Agent on Transverse Strength of Repaired Denture Base

中文摘要

英文摘要

Joint surface contour, repair material and weathering agent solution will all effect the transverse strength of the repaired denture base. In this study, Luciton 199 (Dentsply, USA) was used as the denture base substrate with diff-erent repair-joint designs (butt, round, and 45 degree bevel). Specimens of denture base acrylic resins were repaired with autopolymerized (Repair Materi-al, Dentsply USA) and visible light-cured (Triad, Dentsply, USA) repair mat-erials. Repaired specimens were soaked in 99.5 % ethanol (as a weathering agentsolution) at 37'C for different time periods, their transverse strengths were then measured by a three - point bending test with a universal testing machine. (AGS-1000D, SHIMADZU, JAPAN, cross-head speed : 5mm / min) Instead of beingsoaked in 99.5 % ethanol, the control group was in distilled water. Scanningelectron microscope (SEM) and optical microscope were used to examine the fra-cture patterns and surfaces