



Techmer PM Designed Materials for Dental Products OEM to Address Challenging Physical and Color Requirements

A sterilization case and tray OEM sought a compounded solution for its dental sterilization cases used in dental offices to autoclave reusable devices and instruments. The cases must withstand thousands of steam sterilization cycles while maintaining its color clarity and impact resistance.

Techmer PM selected PPSU as the base resin for autoclavability and impact resistance, but was challenged in coloring in rich tones because of high processing temperatures. Techmer PM leaned on its expertise in colorant and stabilizer technology to create a pre-colored solution, HiFill® PPSU 3010 (white and transparent green tint), that met its aesthetic, impact, and sterilization requirements.

The custom solution enabled its customer to manufacture autoclavable dental tool sterilization cases that can withstand high temperatures and potential drops and mishandling.

