

MAKE IT STERILE MAKE IT ULTEM™ RESIN

Consider ULTEM™ resin as your material solution for medical devices that can stand up to multiple sterilization processes and cycles

Sterilization methods have the potential to degrade medical devices over time, diminishing their mechanical integrity, interfering with performance, or altering aesthetics.

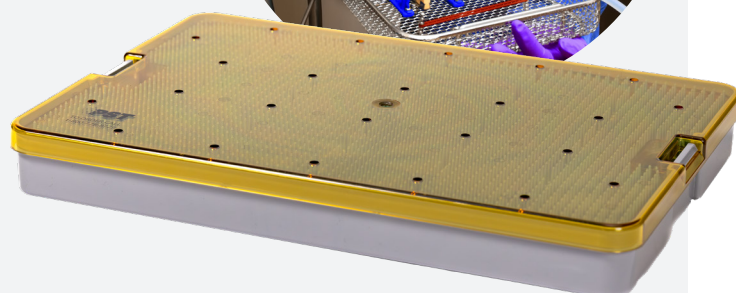
The EPA ruling on the monitoring of EtO sterilization emissions is on the horizon. Give your customers peace of mind with a material solution that is stable across a multitude of sterilization methods and repeated cycles.

- Vaporized Hydrogen Peroxide gas plasma (VHP) >300 cycles
- Steam autoclave at 134°C >1000 cycles
- Gamma radiation, electron beam, and X-ray
- Ethylene Oxide (EtO)
- Ultraviolet C (UV-C) 5 kJ/cm² dose

ULTEM HU RESINS HAVE A SUPERIOR ABILITY TO RETAIN COLOR AND AESTHETICS

SABIC's study tested the performance of ULTEM HU1000, ULTEM HU1004 resin and PPSU in at least 300 sterilization cycles in STERRAD NX, STERRAD 100NX plasma and AMSCO V-PRO vapor systems.

ULTEM HU1000 and HU1004 resins show minimal color change versus the control while PPSU shows significant color change.



COLOR CHANGE AFTER 300 STERRAD NX CYCLES

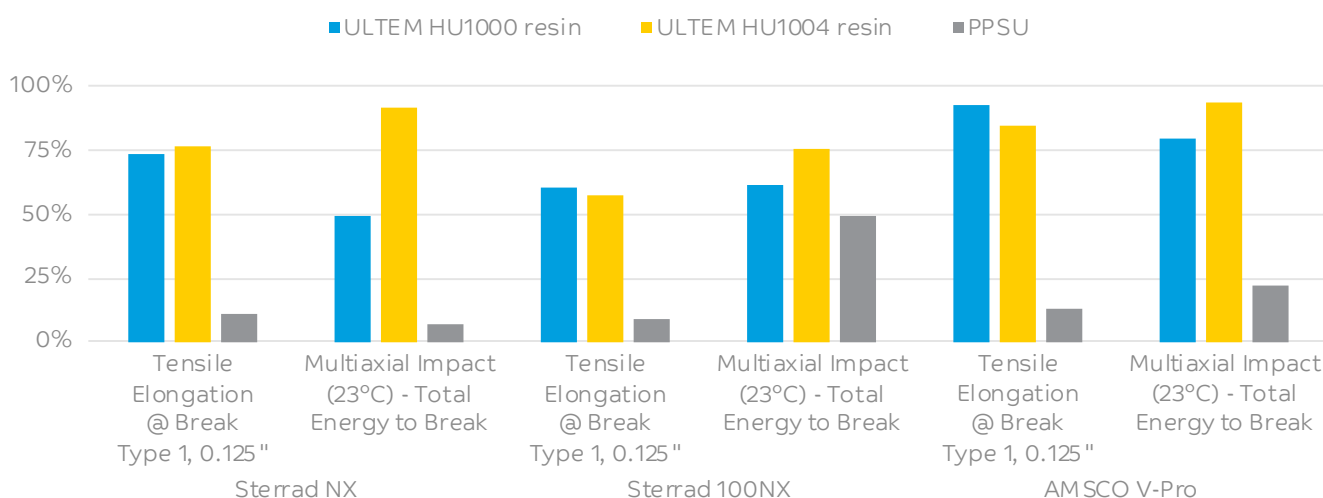
	BLUE	WHITE	GRAY
Control			
ULTEM HU1000 resin			
ULTEM HU1004 resin			
PPSU			

ULTEM™ HU resins maintain mechanical properties even after 300 VHP sterilization cycles. The PPSU material becomes embrittled and can break easily upon impact.

MULTIAXIAL IMPACT AFTER 300 STERRAD NX CYCLES



PROPERTY RETENTION AFTER 300 VHP STERILIZATION CYCLES



READY TO LEARN MORE?

Contact us to request our 16-page performance data flyer for medical devices:
make it POSSIBLE | make it ULTEM resin

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