



ZELUX[®] GS GAMMA STABILIZED

Medical grade Zelux GS polycarbonate is produced from resin formulated to meet the stringent performance characteristics and requirements of the healthcare industry. Suitable for gamma, E Beam, EtO gas and limited autoclaving sterilization, the resin utilizes proprietary color enhancement technology to reduce color shift caused by gamma radiation.

The following physical property information is based on typical values of the base gamma stabilized polycarbonate resin.

Applications Include:

- Surgical equipment
- Instrument components
- Housings and covers

Advantages of Zelux GS:

- Resin meets the requirements of USP VI and ISO 10993 biocompatibility requirements for non-implantable medical applications
- Excellent impact resistance
- Lot controlled and traceable
- Easy to machine
- Optical clarity

Manufacturing Capabilities:

- **Standard Rod:** 1" to 3" dia.
- **Rod Length:** 48"
- **Non-Standard Rod:** <1" and >3"
- **Non-Standard Slab:** 1/2" to 6" thick

Colors/Grades:

- Clear with blue tint

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

Property	Units	Test Standard	Result
Mechanical			
Flexural Modulus	psi	ASTM D790	339,000
Flexural Strength @yield	psi	ASTM D790	14,100
Izod Impact Strength Notched @73°F	ft-lbs/in	ASTM D256	17.0
Un-Notched	ft-lbs/in	ASTM D256	60.0
Tensile Elongation @break	%	ASTM D638	135.0
Tensile Strength @break	psi	ASTM D638	9,900
@yield	psi	ASTM D638	8,900
Thermal			
Coefficient of Thermal Expansion	in/in/°F	ASTM E831	3.44x10 ⁻⁵
Heat Deflection Temperature @66 psi (.250")	°F	ASTM D648	280
@264 psi (.250")	°F	ASTM D648	270
Other			
Specific Gravity	—	ASTM D792	1.20