

Zelux® GS

(polycarbonate - 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 EtO gas and limited autoclaving sterilization, the resin also has 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 polycarbonate resin.

	Units	ASTM Test	Result
Mechanical			
Flexural Modulus	psi	D790	340,000
Flexural Strength @yield	psi	D790	14,200
Hardness-Rockwell R		D785	R118
Izod Impact Strength			
Notched @73°F	ft•lbs/in	D256	17.0
Un-Notched	ft•lbs/in	D256	60.0
Tensile Elongation @break	%	D638	135.0
Tensile Strength			
@break	psi	D638	10,000
@yield	psi	D638	9,000
Thermal			
Coefficient of Thermal Expansion	in/in/°F	D696	3.8x10 ⁻⁵
Heat Deflection Temperature			
@66 psi	°F	D648	280
@264 psi	°F	D648	270
Other			
Specific Gravity	—	D792	1.20

Westlake Product Bulletin



Applications Include:

- Surgical equipment
- Instrument components
- Housings and covers

Advantages of Medical Grade Zelux GS:

- Resin is USP Class VI compliant
- Excellent impact resistance
- Lot controlled and traceable
- Easy to machine
- Optical clarity

Manufacturing Capabilities:

Standard:

Rod: 1" to 1½" diameter

Rod length: 48"

Non-Standard:

Rod: ¾" to 6" diameter

Slab: ¾" to 6" thick

Colors/Grades:

Clear with blue tint (custom tints and opaques available).

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

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