

Zelux® GS

Polycarbonate
Westlake Plastics Company

Message:

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.

- Advantages:
- Resin is USP Class VI compliant
 - Excellent impact resistance
 - Lot controlled and traceable
 - Easy to machine
 - Optical clarity
- Applications:
- Surgical equipment
 - Instrument components
 - Housings and covers

General Information			
Features	Autoclave Sterilizable		
	Ethylene Oxide Sterilizable		
	High Impact Resistance		
	Machinable		
	Medium Clarity		
Uses	Housings		
	Medical/Healthcare Applications		
	Protective Coverings		
	Surgical Instruments		
Agency Ratings	USP Class VI		
Appearance	Blue		
	Clear/Transparent		
	Opaque		
Forms	Rod		
	Slab		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638

Yield	62.1	MPa	
Break	68.9	MPa	
Tensile Elongation (Break)	140	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength (Yield)	97.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	910	J/m	ASTM D256
Unnotched Izod Impact	3200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	138	°C	
1.8 MPa, Unannealed	132	°C	
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696

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