

## Westlake Plastics Zelux® GS Polycarbonate - Gamma Stabilized For Medical Applications

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Gamma Radiation Resistant

### Material Notes:

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. Information provided by Westlake Plastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Westlake-Plastics-Zelux-GS-Polycarbonate-Gamma-Stabilized-For-Medical-Applications.php](http://www.lookpolymers.com/polymer_Westlake-Plastics-Zelux-GS-Polycarbonate-Gamma-Stabilized-For-Medical-Applications.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	68.9 MPa	10000 psi	ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	135 %	135 %	ASTM D638
Flexural Yield Strength	97.9 MPa	14200 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	9.08 J/cm	17.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	32.0 J/cm	60.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	55.8 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	31.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	138 $^{\circ}\text{C}$	280 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 $^{\circ}\text{C}$	270 $^{\circ}\text{F}$	ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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