

## Mateck Zero Expansion Glass - ZERODUR

Category : Ceramic , Glass , Glass Ceramic

Material Notes:

Optical crystals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mateck-Zero-Expansion-Glass-ZERODUR.php](http://www.lookpolymers.com/polymer_Mateck-Zero-Expansion-Glass-ZERODUR.php)

Physical Properties	Metric	English	Comments
Density	2.53 g/cc	0.0914 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	91.0 GPa	13200 ksi	
Poissons Ratio	0.24	0.24	
Shear Modulus	36.7 GPa	5320 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	0.0500 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	0.0278 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 300 $^\circ\text{C}$	@Temperature 68.0 - 572 $^\circ\text{F}$	
Specific Heat Capacity	0.821 J/g- $^\circ\text{C}$	0.196 BTU/lb- $^\circ\text{F}$	
Thermal Conductivity	1.64 W/m-K	11.4 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	
	@Temperature 100 $^\circ\text{C}$	@Temperature 212 $^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.5447	1.5447	at ne
	1.5394	1.5394	
	@Wavelength 656.3 nm	@Wavelength 656.3 nm	
	1.5447	1.5447	
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	1.5544	1.5544	
	@Wavelength 435.8 nm	@Wavelength 435.8 nm	
Transmission, Visible	90 %	90 %	Internal Transmittance
	@Wavelength 700 nm	@Wavelength 700 nm	

Optical Properties	0.00 % Metric	0.00 % English	Comments
	@Wavelength 4500 nm	@Wavelength 4500 nm	Transmittance
	0.00 %	0.00 %	Internal Transmittance
	@Wavelength 3000 nm	@Wavelength 3000 nm	
	40 %	40 %	Internal Transmittance
	@Wavelength 3700 nm	@Wavelength 3700 nm	
	80 %	80 %	Internal Transmittance
	@Wavelength 2900 nm	@Wavelength 2900 nm	
UV Transmittance	0.00 %	0.00 %	Internal Transmittance
	@Wavelength 350 nm	@Wavelength 350 nm	

Descriptive Properties	Value	Comments
Thermal Coefficient of Refractive Index	1.43E-05	at 0.5461 microns for 0/+20 °C
Transmission Range (microns)	0.5 - 2.5	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China