Cat-i Glass

Glass Ceramic Data Sheet

Rev 1 6/4/2021

Overview:

Glass Ceramic is an extremely transparent glass and has virtually no thermal expansion. In addition, this glass has a high level of heat resistance.

Features and Benifits:

- The combination of good optical transmission, low thermal expansion and resistance to thermal shock makes Glass Ceramic an excellent choice for windows in heating devices.
- Glass Ceramic has good UV blocking characteristics and high resistance to heat (up to 700°C)

Material Properties:

Modulus of Elasticity (Young's)	13 x 10^6 psi	92 GPa
Modulus of Rigidity (Shear)	4.3 x 10^6 psi	10 GPa
Poisson's Ratio	0.25	0.25
Density	161.1 lb/ft^3	2580 kg/m^3
Thermal Expansion 20-700°C (68 - 1292°F)	(0 +/-0.5) x 10^{-6}/K	--
Specific Heat at (75° F)	0.176 Btu/lbm.°F	800 J/kg/K
Dispersion (nF - nC)	0.00719	0.00719
Thermal Conductivity at (90°C)	--	1.6 W / m /K

Maximum Operating Temperatures	
Usage temp:	Usage time:
560°C	5000 hours
610°C	1000 hours
660°C	100 hours
710°C	10 hours
760°C	5 hours

Dimensions of Standard Products

Thickness	0.118" to 0.196"	3 mm to 5 mm
Stock Sizes	62" x 33"	1574.8 mm x 838.2 mm

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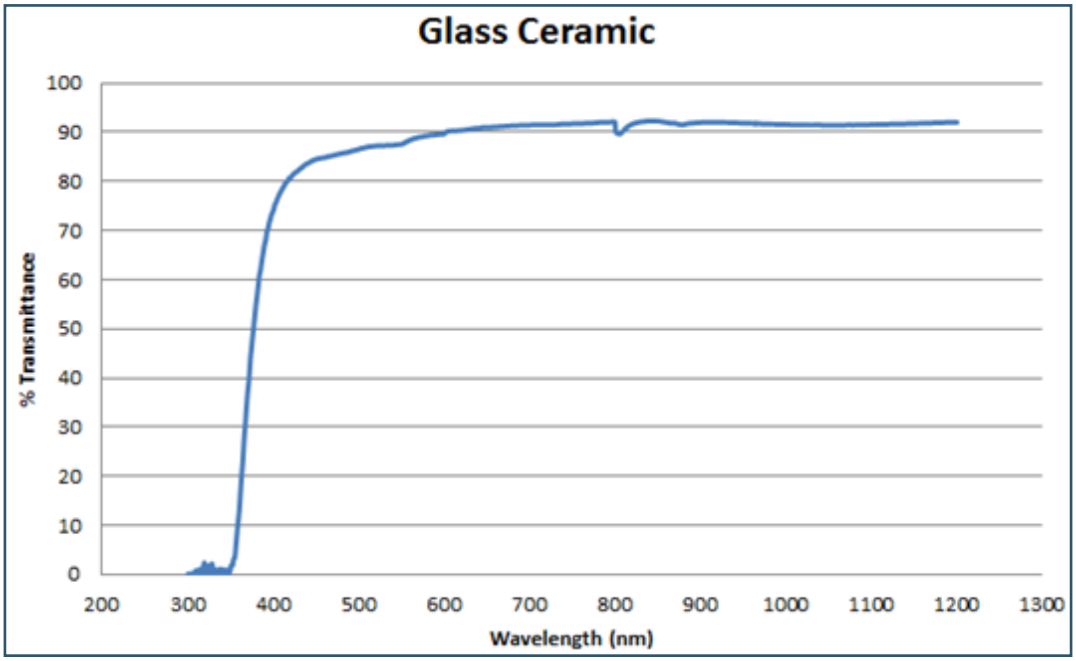
Performance Data:

Transmission Curve



Reflectance Curve