
GE214 Quartz Glass Properties

GE 214 Quartz Glass

GE 214 is a worldwide industry standard for clear fused quartz lamp tubing. It is a high purity, high transmittance, and high temperature material with a low hydroxyl (OH)⁻ content and tight dimensional tolerances.

The typical applications include high performance and high temperature lamps such as mercury and quartz halogen, ultraviolet (UV) lamps, thermocouples, semiconductor quartzware, waveguide handles, and other high temperature products.

Properties	Value
Density	2.2 g/cm ³
Softening Point	1683 ⁰ C
Annealing Point	1215 ⁰ C
Strain Point	1120 ⁰ C
Thermal Expansion Coefficient	5.5 x 10 ⁻⁷ / ⁰ C
Refractive Index	1.4585
Dielectric Constant	3.75 @1 MHz/ 20 ⁰ C
Hardness	5.5 – 6.5 Mohs
Electrical Resistivity	7 x 10 ⁹ ohm-cm @ 350 ⁰ C
Thermal Conductivity	1.4 W/m x ⁰ C
Specific Heat	670 J/kg ⁰ K (0-50 ⁰ C)



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