

Precision Electronic Glass, Inc.

Comparative Values Of Lead Glasses

Glass Code	012	0159	8100	8095
Source - Manufacturer	GE Bridgeville	Corning Fall Brook	Schott	Schott
Trade Name	Lead Glass	Lead Barium Glass	Lead Glass 33.5%	Lead Glass 28%
Expansion $10^{-7} / ^\circ\text{C}$	89	95.2	96	92
Strain Pt $^\circ\text{C}$	390	423	--	--
Annealing Pt $^\circ\text{C}$	435	464	465	435
Softening Pt $^\circ\text{C}$	630	645	655	635
Density gms / cm^3	3.04	3.34	3.28	3.01
Vol. Rest Log 10				
@ 250 $^\circ\text{C}$ Ω / cm	9.9	10.1	--	9.6
@ 350 $^\circ\text{C}$ Ω / cm	7.8	8.2	--	7.6
Dielectric 1M H_2 @ 20 $^\circ\text{C}$	@ 20 $^\circ\text{C}$	@ 24 $^\circ\text{C}$		@ 25 $^\circ\text{C}$
K	6.7	7.7	--	6.6
Refractive Index	1.559	1.584	1.595	1.556
Loss Factor $\tan \delta$	-	0.001	-	0.0011
Stress Optical Coef.				
$10^{-6} \text{mm}^2 / \text{N}$	2.8		-	3.1
Melt Availability	Large diameter tubing and rod are generally specials			

Composition	012	0159	8100	8095
App.. Weight%	GE Bridgeville	Corning Fall Brook	Schott	Schott
PbO	25-30		33.5	28
SiO ₂			48.5	
K ₂ O			9.5	
Na ₂ O			2.5	
Al ₂ O ₃			1.5	
CaO			1.5	
SrO			1	
ZrO ₂			1	

Disclaimer:

This form should only be used for reference purposes. Technical data for design and application should be taken from the respective company's published data.