

Comparative Values of "Kovar Sealing" Glasses

Glass Code	7052	7056	8830	EN1	8245	8250
Source	Corning	Corning	Corning	Kimble	Schott	Schott
Expansion $10^{-7} / ^\circ\text{C}$	47	51.5	49.5	47	51	50
Strain Pt $^\circ\text{C}$	440	472	460	437	505	490
Annealing Pt $^\circ\text{C}$	484	512	501	482	515	500
Softening Pt $^\circ\text{C}$	712	718	708	716	720	720
Working Pt $^\circ\text{C}$	1128	1058	1042	1120	1040	1055
Density gms / cm^3	2.27	2.29	2.24	2.27	2.31	2.28
Vol. Rest Log 10						
@ 250 $^\circ\text{C}$ Ω / cm	9.2	10.3	7.8	8.9	7.4	10
@ 350 $^\circ\text{C}$ Ω / cm	7.4	8.4	6.3	7.2	5.9	8.3
Dielectric 1M H₃ @20$^\circ\text{C}$						
K	5.1	5.7	N/A			
Loss Factor %	0.15	0.27	N/A			
Refractive Index	1.484	1.486	N/A			
Dielectric 1M H₃ @25$^\circ\text{C}$						
K				5.0	5.7	4.9
Loss Factor %				1.4	--	--
Refractive Index				1.48	1.488	1.487
Stress Optical						
$10^{-6} \text{ mm}^2 / \text{N}$	3.6	3.7	3.9	4.1	3.8	3.6
Melt Availability	N/A	N/A	N/A	N/A	2-3 Years	Annually

This table should only be used for reference purposes. Data for design and applications should be taken from the respective company's published data.