

TABLE 3.5 Thicknesses of the HCA Layer After 10 days of Soaking

Glass		HCA Medium Thickness (μm)
C1		20
PxC1	P1C1	23
	P2C1	34
	P3C1	42
	P4C1	37
C2		20
PxC2	P1C2	20
	P3C2	37
	P5C2	40
B5		14
PxB5	P1B5	17
	P3B5	21
	P5B5	25
A1		18
PxA1	P2A1	14
	P4A1	11
	P6A1	20
A3		20
PxA3	P2A3	13
	P4A3	20
	P6A3	30
B3		20
PxB3	P2B3	25
	P4B3	20
	P6B3	20

It is possible to distinguish three types of behavior:

- on the one hand, the glasses for which the addition of phosphorus did not improve the time of nucleation of the crystallized apatite have their HCA layer which thickens as the phosphorus content increases: this applies to PxB5 glasses which develop a layer of HCA of 17 μm for 1% to 25 μm for 5% of phosphorus,