

Material	Density (g/cm ³)	Z _{eff}	Ph.Abs.Coeff. at 511 keV (cm ⁻¹)	X ₀ (cm)	LY (Ph/MeV)	τ (ns)	λ (nm)	Bibliographic Reference number
Cross-luminescent materials								
LiBaF₃	5.2	49.3	0.079	2.11	1400	0.8	190,230	57
KMgF₃	3.2	14.3	0.0007	8.38	1400	1.3	140,190	57
KCaF₃	3	16.7	0.001	7.65	1400	2	140,190	57
KYF₄	3.6	30.2	0.011	4.55	1000	1.9	170	57
BaLu₂F₈	6.94	63	0.22	1.25	870	1+slow	313	34,68
BaF₂	4.88	52.7	0.085	2.03	1430,9950	0.6,620	220,310	35
CsF	4.64	53.2	0.086	2.69	1900	2-4	390	36
RbF	3.6	34.6	0.016	3.6	1700	1.3	203 ,234	57
Self-activated materials								
CeF₃	6.16	53.3	0.11	1.77	4500	30	330	37
Doped materials								
BaY₂F₈:Ce	4.97	44	0.04	52.5	980	45+slow	329	34,68
BaLu₂F₈:Ce	6.94	63	0.22	1.35	400	35+slow	?	34,68
CaF₂:Eu	3.18	16.4	0.045	3.72	21500	940	435	22
LaF₃:Ce		50.8	1.69					63
LuF₃:Ce	8.3	61.1	0.31	1.1	8000	23+slow	310	62