

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- are not determined								
Self-activated materials- are not detected								
Doped materials								
CdS:Te	4.8	48	0.051	2.15	17000	270+slow	640	41
Gd₂O₂S:Pr,Ce,F	7.34	61.1	0.214	1.13	40000	2100	580	42
Lu₂S₃:Ce	6.2	66.7	0.241	1.25	28000	32	592	62
Lu₂O₂S:Ce	8.9	67.2	0.373	0.99				