

From Eaton-Magaña et al., "Fluorescence Spectra of Colored Diamonds"
Winter 2007

Diamond	Color	Key bodycolor group	Peak location 1 (nm)	Initial Intensity (cts)	Decay time (s)	FWHM (nm)	Peak location 2 (nm)	Initial Intensity (cts)	Decay time (s)	FWHM (nm)
Butterfly 11	Green	Green	584	10	4.4	177				
Butterfly 43	Fancy white	Fancy white	452	148	2.1		488	159	2.1	
Butterfly 146	Fancy white	Fancy white	453	94	1.5		498	88	1.2	
Butterfly 223	Fancy white	Fancy white	456	166	1.2		491	180	1.2	
Butterfly 157	Yellow	Yellow	606	4	1.3	155.4				
Butterfly 173	Yellow	Yellow	602	5	3.5	140.3				
Butterfly 2	Brownish yellow-orange	Orange	581	10	1.79	194				
Butterfly 56	Vivid yellowish-orange	Orange	569	37	2.61	107.3				
Butterfly 166	Yellow-orange	Orange	560	8.2	11.4	95				
Butterfly 218	Orange	Orange	436	9.2	2.24		565	3.8	11.4	
Heart 49	Orange	Orange	606	7	1.14	95				
Butterfly 24	Gray-green	Gray-green (incl. chameleon)	557	180	9.8	103				
Butterfly 32	Gray-green (chameleon)	Gray-green (incl. chameleon)	562	8	9.2	96				
Butterfly 70	Gray-green (chameleon)	Gray-green (incl. chameleon)	558	200	10.3	103.6				
Butterfly 87	Gray-green (chameleon)	Gray-green (incl. chameleon)	558	39	8.3	108				
Butterfly 127	Gray-green (chameleon)	Gray-green (incl. chameleon)	560	45.17	3.4	103.8				
Butterfly 184	Gray-green (chameleon)	Gray-green (incl. chameleon)	558	29.8	9.1	103				
Butterfly 190	Gray-green (chameleon)	Gray-green (incl. chameleon)	560	73	8.3	117				
Butterfly 231	Gray-green (chameleon)	Gray-green (incl. chameleon)	557	116	13	108				
Butterfly 234	Gray-green (chameleon)	Gray-green (incl. chameleon)	558	73	25.2	101				
GIA 12172-8b	Gray-green (chameleon)	Gray-green (incl. chameleon)	556	65	10.3					
GIA 487947202	Fancy Dark grayish yellowish green (chameleon)	Gray-green (incl. chameleon)	555	16	8.4					
GIA 487988302	Fancy brownish greenish yellow (chameleon)	Gray-green (incl. chameleon)	555	54	5.5					
GIA 488015402	Fancy Deep brownish greenish yellow (chameleon)	Gray-green (incl. chameleon)	555	66	7.6					
Butterfly 17	Yellow-green	Yellow-green	577	6.5	3.6	145				
Butterfly 96	Green-yellow	Yellow-green	580	3.7	4.7	159				
Butterfly 236	Intense green-yellow	Yellow-green	574	7.2	3		600	3.5	5.9	
Butterfly 239	Intense green-yellow	Yellow-green	585	4						
Heart 52	Greenish yellow	Yellow-green	523	21	1.25					
Heart 54	Yellow-green	Yellow-green	525	6	2.86	59				
Butterfly 55	Pink	Pink	501	40	0.44	69.7				
Butterfly 58	Pink	Pink	511	3.1	4.8	43				
Butterfly 59	Purplish pink	Pink	600	12	4.4	204				
Butterfly 226	Pink	Pink	595	4.2	3.5	85				
Heart 51	Pink	Pink	545	61	0.18					
Heart 53	Pink	Pink	545	3	1.72					
Butterfly 13	Gray-blue	Blue-gray	556	7	3.8	117				
Butterfly 31	Gray-blue	Blue-gray	578	14	3.5	137				
Butterfly 187	Blue-gray	Blue-gray	562	11	4.2	128				
Butterfly 16	Violet	Violet	575	5.425	2	149.1				
Butterfly 163	Violet	Violet	555	3.2	1	102				
Heart 28	Violet	Violet	574	12	0.25	125				
Heart 29	Violet	Violet	580	3	0.78	153				
Heart 42	Violet	Violet	570	14	0.88	81				
Heart 43	Violet	Violet	557	5	1.77	164				
Heart 45	Violet	Violet	570	5	1.48	147				