

Photo-luminescent (fluorescence and phosphorescence) reactions for diamonds and simulants

COLOURLESS

LWUVSWUVPhos.

NATURAL DIAMOND

~2 secs

NATURAL + HPHT-treated

~2 secs

SYNTHETIC HPHT-grown

~2 secs

SYNTHETIC CVD as-grown

~2 secs

SYNTHETIC CVD-grown + HPHT-treated

~2 secs

PINK / PURPLE

LWUVSWUVPhos.

NATURAL DIAMOND

~1 sec

SYNTHETIC HPHT + irradi + anneal

~1 sec

CUBIC ZIRCONIA

~1 sec

MOISSANITE

~1 sec

CUBIC ZIRCONIA

~1 sec

YELLOW and ORANGE

LWUVSWUVPhos.

NATURAL DIAMOND

~10 secs

NATURAL + HPHT-treated

~10 secs

NATURAL + Irrad + anneal

~10 secs

SYNTHETIC HPHT-grown

~10 secs

CUBIC ZIRCONIA

~10 secs

BLUE / VIOLET

LWUVSWUVPhos.

NATURAL DIAMOND

~10 secs

NATURAL + Irrad

~10 secs

SYNTHETIC HPHT-grown

~10 secs

SYNTHETIC CVD-grown + irradi.

~10 secs

CUBIC ZIRCONIA

~10 secs

BROWN

LWUVSWUV

NATURAL DIAMOND

~10 secs

NATURAL + HPHT-treated

~10 secs

NATURAL + Irrad

~10 secs

SYNTHETIC HPHT-grown + treated

~10 secs

SYNTHETIC CVD-grown

~10 secs

CUBIC ZIRCONIA

~10 secs

GREEN

LWUVSWUVPhos.

NATURAL DIAMOND

~5 sec

NATURAL + irradi

~5 sec

SYNTHETIC + irradi

~5 sec

CUBIC ZIRCONIA

~5 sec

CHAMELEON DIAMONDS

NATURAL DIAMOND

30 - 60 secs

These images are examples only and there will be instances that will be inconsistent with these examples. Laboratory tests are recommended to confirm any results indicated from PL reactions.

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