

Abnormal partial dispersion of optical glass

Abnormal partial dispersions of lead contain optical glasses are absolutely necessary for the removal of the chromatic aberration secondary spectrum, as for a case of designing high N.A apochromat lens.

Show samples of the chromatic aberration at pin-hole images



(Apochromat lens)



(Non-Apochromat lens)

Sample data of abnormal partial dispersion of optical glass

	BPH5	S-NBH5(Pb-free)
nd	1.65412	1.65412
νd	39.7	39.7
Abnormal partial dispersion $\Delta \theta_{ig} : G(435nm)/i(365nm)$	-0.0287	-0.0132

	LAM7	S-LAM7(Pb-free)
nd	1.74950	1.74950
νd	35.3	35.3
Abnormal partial dispersion $\Delta \theta_{ct} : C(656nm)/t(1013nm)$	-0.0098	0.0056