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## FWT-60-00 Characterization Batch 1043

### Coefficient of Variation of k

600 nm	510 nm
1.7%	2.0%

### Variation in dose from +/- 3% variation in k at 30 kGy

600 nm	510 nm
4.0%	3.7%

### Typical Calibration Curve

(Dosimeters pre-conditioned to 20 °C and 50%RH)

Dose, kGy	k, mm <sup>-1</sup> at 600 nm	k, mm <sup>-1</sup> at 510 nm
1	1.68	--
5	7.93	0.89
10	15.45	1.83
30	39.16	4.65
50	53.78	6.92
70	59.37	8.73
100	--	10.96
150	--	13.56
200	--	15.12

### Temperature Dependence

(Dosimeters pre-conditioned to 20 °C and 50%RH)

T, °C	-72	-38	-24	0	20	30	40	50
k, mm <sup>-1</sup> at 600 nm	30.83	35.28	35.88	37.75	39.82	39.39	39.05	39.11
k, mm <sup>-1</sup> at 510 nm	3.66	4.16	4.43	4.61	4.88	4.73	4.74	4.80

### Humidity Dependence

(Dosimeters pre-conditioned to the indicated humidity at 20 °C)

%RH	32	40	43	49	53	57
k, mm <sup>-1</sup> at 600 nm	41.13	41.33	40.69	39.89	39.96	37.99
k, mm <sup>-1</sup> at 510 nm	5.09	4.81	4.92	4.76	4.80	4.57

Note: k is the specific absorbance and is determined from the thickness, t, and final and initial absorbances A<sub>f</sub> and A<sub>i</sub>;  $k = (A_f - A_i) / t$ .