

Radiation Effects on KYDEX® Thermoplastic Sheet

For information applicable to KYDEX® FST please refer to 300 series technical briefs.

TB - 122-B

General Information

KYDEX® sheet was irradiated using Cobalt-60 (gamma energies 1.173 MeV, 1.331 MeV) to the total dose listed below. Color and impact properties are not negatively affected for doses up to 3.5E+6 rads.

Dose Rate: 1.406E6 Rads/hr average

Total Dose: 3.52E6 or 3.52E7 Rads

Dose Measurement: Keithley Autoranging Picoammeter Model 485 with LND Ionization Chamber Probe.

Product	Total Dose	Izod Impact	Delta L	Delta a	Delta b	Delta E
KYDEX® T	0	15.36	--	--	--	--
KYDEX® T	3.5E6	16.18	-27	-08	.71	.77
KYDEX® T	35E6	14.71	-6	.84	7.45	9.66
KYDEX® 100	0	17.62	--	--	--	--
KYDEX® 100	3.5E6	19.18	-2	-07	.41	.46
KYDEX® 100	35E6	16.88	-5.07	-1.05	6.23	8.51
KYDEX® 550	0	18.0	--	--	--	--
KYDEX® 550	3.5E6	--	-28	-03	.16	.32
KYDEX® 550	35E6	--	-3.81	-62	2.8	4.77

SEKISUI SPI

ISO 9001 and 14001 Certified

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