

Radiation Effects on KYDEX® Thermoplastic Sheet

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 3.50 E⁶ rads.

Dose Rate: 1.406 E⁶ Rads/hr average

Total Dose: 3.52 E⁶ or 3.52 E⁷ Rads

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

Product	Total Dose	Izod Impact	ΔL	Δa	Δb	ΔE
KYDEX® T	0	15.36	--	--	--	--
KYDEX® T	3.5 E ⁶	16.18	-0.27	-0.08	0.71	0.77
KYDEX® T	35.0 E ⁶	14.71	-0.60	0.84	7.45	9.66
KYDEX® 100	0	17.62	--	--	--	--
KYDEX® 100	3.5 E ⁶	19.18	-0.20	-0.07	0.41	0.46
KYDEX® 100	35.0 E ⁶	16.88	-5.07	-1.05	6.23	8.51



Customer Collaboration

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