



Lead in Cathode Ray Tubes (CRTs) Information Sheet**

A CRT is used in most televisions and computer monitors (Liquid Crystal Displays (LCDs) and plasma displays do not use CRT technology). Lead is used in CRTs to protect users from potentially harmful exposure to x-rays. The lead in CRTs is bound in a glass matrix as lead oxide, and is stable and immobile. According to the data collected, the average CRT for the time period 1995 to 2000, including televisions and monitors, is an 18.63-inch CRT with a lead content that varies from 2.14 lbs to 2.63 lbs. This table summarizes the weight of glass and the lead content of various-sized CRTs manufactured in the U.S. For an explanation of what a CRT is and how it works, please see <http://www.howstuffworks.com/tv1.htm>.

Portable and Table Televisions			
Screen Size	Total Glass Weight (lbs)	Total Lead in Lead Panel¹ CRT (lbs)	Total Lead in No-Lead Panel CRT (lbs)
8" & under	12.9	1.30	1.08
9" & 10"	15.0	1.47	1.21
13" & 14"	17.2	1.75	1.46
19"	27.1	2.66	2.21
20"	28.2	2.70	2.21
25"	43.5	4.05	3.28
26" & 27"	53.2	4.97	4.03
29" through 31"	81.2	7.99	6.62
32"	85.6	8.39	6.94
35"	117.4	11.28	9.27
Console Televisions			
Screen Size	Total Glass Weight (lbs)	Total Lead in Lead Panel CRT (lbs)	Total Lead in No-Lead Panel CRT (lbs)
26" & under	48.8	4.54	3.68
27" - 32"	68.5	6.61	5.44
35" & over	117.4	11.28	9.27
Monitors			
Screen Size	Total Glass Weight (lbs)	Total Lead in Lead Panel CRT (lbs)	Total Lead in No-Lead Panel CRT (lbs)
14"	19.7	NA*	1.68
15"	19.7	NA*	1.68
17"	25.7	NA*	2.08
19" through 21"	28.0	NA*	2.28

*There are no monitors sold in the US with leaded panels.

**Source: A. Monchamp, H. Evans, J. Nardone, S. Wood, E. Proch and T. Wagner: [Cathode Ray Tube Manufacturing and Recycling: Analysis Of Industry Survey](#)

¹ Panel glass is the glass viewable to the user. A leaded CRT panel contains lead in the mixture of panel glass. In the manufacturing of a no-lead panel CRT, lead is not intentionally added to the mixture.