

**Table 127: Muons in Cadmium telluride (CdTe)**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.41665	6.200	539.3	0.24840	2.6665	0.0438	3.2836	5.9096	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod [MeV cm <sup>2</sup> /g]	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]	
10.0 MeV	$4.704 \times 10^1$	4.453				4.453	$1.273 \times 10^0$	
14.0 MeV	$5.616 \times 10^1$	3.518				3.518	$2.294 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	2.781				2.781	$4.233 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	2.184				2.184	$8.345 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	1.880				1.880	$1.331 \times 10^1$	
80.0 MeV	$1.527 \times 10^2$	1.438				1.438	$3.838 \times 10^1$	
100. MeV	$1.764 \times 10^2$	1.359				1.359	$5.272 \times 10^1$	
140. MeV	$2.218 \times 10^2$	1.283				1.283	$8.314 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.247				1.247	$1.307 \times 10^2$	
242. MeV	$3.316 \times 10^2$	1.243				1.243	<i>Minimum ionization</i>	
300. MeV	$3.917 \times 10^2$	1.247	0.000		0.000	1.248	$2.111 \times 10^2$	
400. MeV	$4.945 \times 10^2$	1.266	0.000		0.000	1.267	$2.907 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.351	0.001		0.000	1.352	$5.959 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.385	0.001		0.000	1.387	$7.418 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	1.439	0.002	0.000	0.001	1.442	$1.024 \times 10^3$	
2.00 GeV	$2.103 \times 10^3$	1.498	0.003	0.001	0.001	1.503	$1.432 \times 10^3$	
3.00 GeV	$3.104 \times 10^3$	1.564	0.005	0.003	0.001	1.573	$2.081 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	1.609	0.007	0.005	0.002	1.623	$2.706 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	1.712	0.017	0.016	0.003	1.749	$5.071 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	1.743	0.022	0.023	0.004	1.793	$6.199 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	1.787	0.034	0.037	0.005	1.865	$8.385 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	1.831	0.053	0.061	0.008	1.954	$1.153 \times 10^4$	
30.0 GeV	$3.011 \times 10^4$	1.878	0.087	0.106	0.011	2.083	$1.648 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	1.908	0.123	0.156	0.015	2.202	$2.115 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	1.976	0.277	0.373	0.029	2.656	$3.765 \times 10^4$	
100. GeV	$1.001 \times 10^5$	1.996	0.359	0.490	0.036	2.883	$4.488 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.026	0.527	0.732	0.050	3.337	$5.776 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.057	0.790	1.114	0.072	4.034	$7.410 \times 10^4$	
208. GeV	$2.077 \times 10^5$	2.060	0.824	1.162	0.074	4.121	<i>Muon critical energy</i>	
300. GeV	$3.001 \times 10^5$	2.091	1.240	1.753	0.107	5.193	$9.591 \times 10^4$	
400. GeV	$4.001 \times 10^5$	2.116	1.704	2.416	0.143	6.380	$1.133 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.176	3.623	5.132	0.289	11.220	$1.599 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.195	4.608	6.521	0.363	13.689	$1.761 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.224	6.584	9.293	0.515	18.618	$2.010 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.256	9.607	13.524	0.744	26.133	$2.281 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.293	14.654	20.554	1.138	38.641	$2.594 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	2.319	19.770	27.659	1.538	51.287	$2.818 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	2.384	40.395	56.222	3.196	102.197	$3.360 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	2.405	50.789	70.579	4.048	127.822	$3.534 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	2.437	71.521	99.227	5.795	178.982	$3.798 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	2.472	102.805	142.384	8.472	256.134	$4.076 \times 10^5$	
30.0 TeV	$3.000 \times 10^7$	2.513	154.884	214.189	13.099	384.685	$4.393 \times 10^5$	
40.0 TeV	$4.000 \times 10^7$	2.542	207.153	286.164	17.834	513.695	$4.617 \times 10^5$	
80.0 TeV	$8.000 \times 10^7$	2.614	416.548	574.271	37.609	1031.043	$5.156 \times 10^5$	
100. TeV	$1.000 \times 10^8$	2.637	521.426	718.459	47.822	1290.345	$5.329 \times 10^5$	