

**Table 187: Muons in Lithium iodide (LiI)**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.41939	3.494	485.1	0.23274	2.7146	0.0892	3.3702	6.2671	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	$4.704 \times 10^1$	4.564				4.565	$1.240 \times 10^0$	
14.0 MeV	$5.616 \times 10^1$	3.603				3.603	$2.236 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	2.845				2.845	$4.130 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	2.233				2.233	$8.150 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	1.921				1.921	$1.301 \times 10^1$	
80.0 MeV	$1.527 \times 10^2$	1.469				1.469	$3.755 \times 10^1$	
100. MeV	$1.764 \times 10^2$	1.389				1.389	$5.158 \times 10^1$	
140. MeV	$2.218 \times 10^2$	1.313				1.313	$8.134 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.277				1.277	$1.278 \times 10^2$	
243. MeV	$3.325 \times 10^2$	1.272				1.273	<i>Minimum ionization</i>	
300. MeV	$3.917 \times 10^2$	1.277	0.000		0.000	1.278	$2.063 \times 10^2$	
400. MeV	$4.945 \times 10^2$	1.297	0.000		0.000	1.298	$2.840 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.385	0.001		0.000	1.386	$5.818 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.420	0.001		0.000	1.422	$7.242 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	1.476	0.002	0.000	0.001	1.478	$9.999 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	1.536	0.003	0.001	0.001	1.540	$1.397 \times 10^3$	
3.00 GeV	$3.104 \times 10^3$	1.603	0.005	0.003	0.001	1.612	$2.031 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	1.650	0.007	0.005	0.002	1.664	$2.641 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	1.755	0.017	0.016	0.003	1.793	$4.947 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	1.787	0.023	0.023	0.004	1.837	$6.049 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	1.832	0.034	0.037	0.006	1.910	$8.183 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	1.877	0.053	0.061	0.008	2.000	$1.125 \times 10^4$	
30.0 GeV	$3.011 \times 10^4$	1.925	0.087	0.106	0.011	2.130	$1.609 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	1.956	0.123	0.156	0.015	2.251	$2.066 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.025	0.279	0.374	0.029	2.708	$3.682 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.046	0.361	0.491	0.036	2.936	$4.392 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.076	0.530	0.734	0.051	3.392	$5.658 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.107	0.795	1.117	0.072	4.092	$7.267 \times 10^4$	
212. GeV	$2.117 \times 10^5$	2.112	0.846	1.189	0.076	4.225	<i>Muon critical energy</i>	
300. GeV	$3.001 \times 10^5$	2.142	1.247	1.758	0.108	5.256	$9.419 \times 10^4$	
400. GeV	$4.001 \times 10^5$	2.167	1.714	2.422	0.144	6.447	$1.113 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.227	3.644	5.144	0.291	11.307	$1.576 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.246	4.635	6.537	0.366	13.785	$1.736 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.276	6.623	9.316	0.518	18.734	$1.984 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.308	9.663	13.557	0.749	26.278	$2.253 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.344	14.739	20.604	1.145	38.834	$2.565 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	2.371	19.882	27.727	1.548	51.529	$2.787 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	2.436	40.622	56.359	3.217	102.635	$3.327 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	2.457	51.074	70.752	4.074	128.358	$3.501 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	2.490	71.920	99.470	5.835	179.716	$3.763 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	2.525	103.376	142.731	8.533	257.166	$4.041 \times 10^5$	
30.0 TeV	$3.000 \times 10^7$	2.566	155.742	214.709	13.196	386.214	$4.356 \times 10^5$	
40.0 TeV	$4.000 \times 10^7$	2.595	208.297	286.857	17.970	515.721	$4.579 \times 10^5$	
80.0 TeV	$8.000 \times 10^7$	2.667	418.837	575.651	37.904	1035.060	$5.116 \times 10^5$	
100. TeV	$1.000 \times 10^8$	2.691	524.285	720.179	48.201	1295.357	$5.288 \times 10^5$	