

## Muons in lead glass

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.42101	6.220	526.4	0.09544	3.0740	0.0614	3.8146	5.8476	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	$4.704 \times 10^1$	4.518				4.518	$1.254 \times 10^0$		
14.0 MeV	$5.616 \times 10^1$	3.569				3.569	$2.260 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	2.820				2.820	$4.172 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	2.215				2.215	$8.226 \times 10^0$		
40.0 MeV	$1.003 \times 10^2$	1.906				1.906	$1.312 \times 10^1$		
80.0 MeV	$1.527 \times 10^2$	1.456				1.456	$3.785 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.376				1.376	$5.202 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.298				1.298	$8.208 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.260				1.261	$1.291 \times 10^2$		
247. MeV	$3.366 \times 10^2$	1.255	0.000			1.256	<i>Minimum ionization</i>		
300. MeV	$3.917 \times 10^2$	1.259	0.000		0.000	1.260	$2.087 \times 10^2$		
400. MeV	$4.945 \times 10^2$	1.278	0.000		0.000	1.278	$2.875 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.362	0.001		0.000	1.363	$5.902 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.395	0.001		0.000	1.397	$7.350 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.449	0.002		0.001	1.452	$1.016 \times 10^3$		
2.00 GeV	$2.103 \times 10^3$	1.507	0.003	0.001	0.001	1.512	$1.420 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.573	0.006	0.003	0.001	1.583	$2.065 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	1.618	0.008	0.005	0.002	1.634	$2.687 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	1.722	0.020	0.018	0.003	1.764	$5.034 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	1.753	0.027	0.025	0.004	1.810	$6.153 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	1.798	0.041	0.041	0.006	1.886	$8.317 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	1.843	0.063	0.068	0.008	1.982	$1.142 \times 10^4$		
30.0 GeV	$3.011 \times 10^4$	1.890	0.104	0.119	0.011	2.125	$1.629 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	1.922	0.146	0.175	0.015	2.259	$2.085 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	1.992	0.331	0.424	0.029	2.778	$3.678 \times 10^4$		
100. GeV	$1.001 \times 10^5$	2.014	0.429	0.558	0.036	3.038	$4.366 \times 10^4$		
140. GeV	$1.401 \times 10^5$	2.045	0.630	0.835	0.050	3.561	$5.582 \times 10^4$		
183. GeV	$1.834 \times 10^5$	2.069	0.855	1.148	0.066	4.139	<i>Muon critical energy</i>		
200. GeV	$2.001 \times 10^5$	2.077	0.944	1.273	0.071	4.366	$7.101 \times 10^4$		
300. GeV	$3.001 \times 10^5$	2.112	1.481	2.005	0.107	5.706	$9.100 \times 10^4$		
400. GeV	$4.001 \times 10^5$	2.137	2.035	2.763	0.143	7.080	$1.067 \times 10^5$		
800. GeV	$8.001 \times 10^5$	2.197	4.323	5.876	0.289	12.686	$1.484 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.217	5.498	7.468	0.363	15.547	$1.626 \times 10^5$		
1.40 TeV	$1.400 \times 10^6$	2.247	7.852	10.643	0.514	21.257	$1.845 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.279	11.451	15.489	0.743	29.964	$2.082 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.316	17.457	23.542	1.137	44.453	$2.354 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.342	23.542	31.680	1.536	59.103	$2.549 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.408	48.067	64.393	3.194	118.063	$3.018 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.429	60.423	80.835	4.045	147.733	$3.169 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.462	85.066	113.643	5.793	206.965	$3.397 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	2.497	122.241	163.063	8.472	296.276	$3.638 \times 10^5$		
30.0 TeV	$3.000 \times 10^7$	2.538	184.128	245.288	13.104	445.059	$3.911 \times 10^5$		
40.0 TeV	$4.000 \times 10^7$	2.567	246.230	327.705	17.845	594.349	$4.105 \times 10^5$		
80.0 TeV	$8.000 \times 10^7$	2.640	494.978	657.607	37.658	1192.885	$4.571 \times 10^5$		
100. TeV	$1.000 \times 10^8$	2.664	619.549	822.710	47.896	1492.821	$4.720 \times 10^5$		