

Muons in G10

$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.51176	1.800	110.4	0.12971	3.0000	0.2000	3.0000	3.7685	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod [MeV cm ² /g]	Photonucl	Total	CSDA range [g/cm ²]	
10.0 MeV	4.704×10^1	6.976				6.976	7.953×10^{-1}	
14.0 MeV	5.616×10^1	5.452				5.452	1.451×10^0	
20.0 MeV	6.802×10^1	4.266				4.266	2.709×10^0	
30.0 MeV	8.509×10^1	3.316				3.316	5.405×10^0	
40.0 MeV	1.003×10^2	2.835				2.835	8.687×10^0	
80.0 MeV	1.527×10^2	2.135				2.135	2.546×10^1	
100. MeV	1.764×10^2	2.006				2.006	3.514×10^1	
140. MeV	2.218×10^2	1.868				1.868	5.590×10^1	
200. MeV	2.868×10^2	1.790				1.790	8.884×10^1	
300. MeV	3.917×10^2	1.762			0.000	1.762	1.453×10^2	
308. MeV	4.000×10^2	1.762			0.000	1.762	<i>Minimum ionization</i>	
400. MeV	4.945×10^2	1.770			0.000	1.770	2.020×10^2	
800. MeV	8.995×10^2	1.844	0.000		0.000	1.845	4.234×10^2	
1.00 GeV	1.101×10^3	1.878	0.000		0.000	1.878	5.308×10^2	
1.40 GeV	1.502×10^3	1.932	0.000	0.000	0.001	1.933	7.405×10^2	
2.00 GeV	2.103×10^3	1.992	0.001	0.000	0.001	1.994	1.046×10^3	
3.00 GeV	3.104×10^3	2.061	0.001	0.001	0.001	2.064	1.538×10^3	
4.00 GeV	4.104×10^3	2.109	0.002	0.001	0.002	2.114	2.017×10^3	
8.00 GeV	8.105×10^3	2.218	0.004	0.004	0.004	2.230	3.853×10^3	
10.0 GeV	1.011×10^4	2.251	0.005	0.005	0.005	2.267	4.742×10^3	
14.0 GeV	1.411×10^4	2.299	0.008	0.009	0.007	2.323	6.484×10^3	
20.0 GeV	2.011×10^4	2.346	0.013	0.015	0.009	2.384	9.032×10^3	
30.0 GeV	3.011×10^4	2.398	0.021	0.026	0.014	2.458	1.316×10^4	
40.0 GeV	4.011×10^4	2.432	0.030	0.038	0.018	2.518	1.718×10^4	
80.0 GeV	8.011×10^4	2.510	0.068	0.092	0.035	2.705	3.248×10^4	
100. GeV	1.001×10^5	2.534	0.088	0.121	0.043	2.787	3.976×10^4	
140. GeV	1.401×10^5	2.570	0.130	0.182	0.060	2.942	5.373×10^4	
200. GeV	2.001×10^5	2.607	0.196	0.278	0.084	3.166	7.338×10^4	
300. GeV	3.001×10^5	2.650	0.310	0.441	0.126	3.528	1.033×10^5	
400. GeV	4.001×10^5	2.680	0.428	0.612	0.168	3.888	1.303×10^5	
800. GeV	8.001×10^5	2.753	0.918	1.319	0.340	5.331	2.178×10^5	
852. GeV	8.523×10^5	2.760	0.984	1.413	0.363	5.520	<i>Muon critical energy</i>	
1.00 TeV	1.000×10^6	2.777	1.172	1.683	0.427	6.060	2.529×10^5	
1.40 TeV	1.400×10^6	2.813	1.683	2.410	0.606	7.513	3.121×10^5	
2.00 TeV	2.000×10^6	2.852	2.468	3.524	0.877	9.722	3.822×10^5	
3.00 TeV	3.000×10^6	2.897	3.784	5.378	1.344	13.404	4.694×10^5	
4.00 TeV	4.000×10^6	2.929	5.123	7.257	1.820	17.130	5.353×10^5	
8.00 TeV	8.000×10^6	3.009	10.548	14.825	3.799	32.181	7.029×10^5	
10.0 TeV	1.000×10^7	3.035	13.292	18.636	4.819	39.782	7.587×10^5	
14.0 TeV	1.400×10^7	3.075	18.772	26.231	6.922	55.000	8.439×10^5	
20.0 TeV	2.000×10^7	3.118	27.066	37.684	10.154	78.021	9.350×10^5	
30.0 TeV	3.000×10^7	3.167	40.871	56.739	15.766	116.543	1.039×10^6	
40.0 TeV	4.000×10^7	3.203	54.751	75.853	21.528	155.335	1.113×10^6	
80.0 TeV	8.000×10^7	3.291	110.450	152.374	45.729	311.844	1.292×10^6	
100. TeV	1.000×10^8	3.320	138.387	190.678	58.282	390.669	1.349×10^6	