Muons in Mt Blanc rock, std rock density

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.48003	2.650	159.2	0.14836	3.0000	0.1959	2.9959	4.1588	0.00

T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm^2]
		[MeV cm^2/g]					
10.0 MeV	4.704×10^1	6.217				6.217	8.959×10^{-1}
14.0 MeV	5.616×10^1	4.869				4.869	1.630×10^0
20.0 MeV	6.802×10^1	3.817				3.817	3.038×10^0
30.0 MeV	8.509×10^1	2.973				2.973	6.047×10^0
40.0 MeV	1.003×10^2	2.545				2.546	9.705×10^0
80.0 MeV	1.527×10^2	1.923				1.923	2.835×10^1
100. MeV	1.764×10^2	1.809				1.809	3.910×10^1
140. MeV	2.218×10^2	1.690				1.690	6.208×10^1
200. MeV	2.868×10^2	1.625				1.625	9.842×10^1
294. MeV	3.854×10^2	1.605			0.000	1.606	*Minimum ionization*
300. MeV	3.917×10^2	1.605			0.000	1.606	1.605×10^2
400. MeV	4.945×10^2	1.616			0.000	1.617	2.226×10^2
800. MeV	8.995×10^2	1.693	0.000		0.000	1.693	4.643×10^2
1.00 GeV	1.101×10^3	1.726	0.000		0.000	1.726	5.813×10^2
1.40 GeV	1.502×10^3	1.779	0.000	0.000	0.001	1.780	8.093×10^2
2.00 GeV	2.103×10^3	1.837	0.001	0.000	0.001	1.839	1.141×10^3
3.00 GeV	3.104×10^3	1.903	0.001	0.001	0.001	1.907	1.674×10^3
4.00 GeV	4.104×10^3	1.949	0.002	0.002	0.002	1.955	2.192×10^3
8.00 GeV	8.105×10^3	2.053	0.005	0.005	0.004	2.067	4.175×10^3
10.0 GeV	1.011×10^4	2.085	0.006	0.006	0.005	2.102	5.134×10^3
14.0 GeV	1.411×10^4	2.130	0.010	0.011	0.006	2.157	7.011×10^3
20.0 GeV	2.011×10^4	2.175	0.015	0.017	0.009	2.217	9.753×10^3
30.0 GeV	3.011×10^4	2.224	0.025	0.030	0.013	2.292	1.419×10^4
40.0 GeV	4.011×10^4	2.256	0.035	0.044	0.017	2.352	1.849×10^4
80.0 GeV	8.011×10^4	2.329	0.079	0.107	0.033	2.548	3.480×10^4
100. GeV	1.001×10^5	2.352	0.102	0.141	0.041	2.636	4.252×10^4
140. GeV	1.401×10^5	2.385	0.151	0.211	0.057	2.804	5.722×10^4
200. GeV	2.001×10^5	2.421	0.226	0.322	0.081	3.050	7.773×10^4
300. GeV	3.001×10^5	2.460	0.357	0.510	0.121	3.448	1.085×10^5
400. GeV	4.001×10^5	2.489	0.491	0.705	0.162	3.847	1.360×10^5
711. GeV	7.107×10^5	2.546	0.924	1.332	0.289	5.091	*Muon critical energy*
800. GeV	8.001×10^5	2.557	1.051	1.517	0.327	5.452	2.229×10^5
1.00 TeV	1.000×10^6	2.580	1.340	1.935	0.410	6.265	2.571×10^5
1.40 TeV	1.400×10^6	2.614	1.920	2.767	0.582	7.883	3.139×10^5
2.00 TeV	2.000×10^6	2.650	2.811	4.039	0.842	10.342	3.802×10^5
3.00 TeV	3.000×10^6	2.692	4.301	6.156	1.290	14.440	4.617×10^5
4.00 TeV	4.000×10^6	2.723	5.816	8.301	1.745	18.585	5.225×10^5
8.00 TeV	8.000×10^6	2.797	11.940	16.933	3.639	35.310	6.761×10^5
10.0 TeV	1.000×10^7	2.821	15.034	21.278	4.614	43.747	7.269×10^5
14.0 TeV	1.400×10^7	2.859	21.210	29.939	6.619	60.627	8.042×10^5
20.0 TeV	2.000×10^7	2.899	30.546	42.997	9.698	86.141	8.869×10^5
30.0 TeV	3.000×10^7	2.946	46.071	64.729	15.037	128.783	9.812×10^5
40.0 TeV	4.000×10^7	2.979	61.666	86.527	20.513	171.686	1.048×10^6
80.0 TeV	8.000×10^7	3.062	124.204	173.784	43.459	344.509	1.209×10^6
100. TeV	1.000×10^8	3.089	155.553	217.460	55.341	431.443	1.261×10^6