Table 315: Muons in Roentgenium

Z	A [g/mol]	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
111 (Rg)	[272.1536]	??	1143.0	0.27936	3.0000	0.6577	3.0000	6.6187	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	3.608				3.608	1.654×10^0
14.0 MeV	5.616×10^1	2.915				2.915	2.898×10^0
20.0 MeV	6.802×10^1	2.347				2.347	5.214×10^0
30.0 MeV	8.509×10^1	1.872				1.872	1.004×10^1
40.0 MeV	1.003×10^2	1.626				1.626	1.581×10^1
80.0 MeV	1.527×10^2	1.264				1.264	4.451×10^1
100. MeV	1.764×10^2	1.201				1.201	6.079×10^1
140. MeV	2.218×10^2	1.144				1.144	9.506×10^1
200. MeV	2.868×10^2	1.123	0.000			1.123	1.482×10^2
207. MeV	2.943×10^2	1.123	0.000			1.123	*Minimum ionization*
300. MeV	3.917×10^2	1.138	0.000		0.000	1.138	2.368×10^2
400. MeV	4.945×10^2	1.167	0.000		0.000	1.168	3.236×10^2
800. MeV	8.995×10^2	1.270	0.001		0.000	1.272	6.509×10^2
1.00 GeV	1.101×10^3	1.307	0.002		0.000	1.310	8.058×10^2
1.40 GeV	1.502×10^3	1.366	0.003		0.000	1.370	1.104×10^3
2.00 GeV	2.103×10^3	1.427	0.005	0.000	0.001	1.434	1.532×10^3
3.00 GeV	3.104×10^3	1.494	0.009	0.003	0.001	1.508	2.210×10^3
4.00 GeV	4.104×10^3	1.540	0.014	0.007	0.001	1.562	2.861×10^3
8.00 GeV	8.105×10^3	1.640	0.034	0.026	0.003	1.704	5.303×10^3
10.0 GeV	1.011×10^4	1.670	0.045	0.037	0.004	1.757	6.459×10^3
14.0 GeV	1.411×10^4	1.711	0.069	0.062	0.005	1.848	8.677×10^3
20.0 GeV	2.011×10^4	1.752	0.108	0.103	0.007	1.971	1.182×10^4
30.0 GeV	3.011×10^4	1.795	0.177	0.184	0.010	2.168	1.665×10^4
40.0 GeV	4.011×10^4	1.823	0.250	0.274	0.014	2.362	2.107×10^4
80.0 GeV	8.011×10^4	1.886	0.564	0.672	0.027	3.151	3.569×10^4
100. GeV	1.001×10^5	1.905	0.731	0.887	0.034	3.559	4.166×10^4
113. GeV	1.136×10^5	1.916	0.845	1.034	0.038	3.834	*Muon critical energy*
140. GeV	1.401×10^5	1.934	1.073	1.330	0.047	4.386	5.177×10^4
200. GeV	2.001×10^5	1.964	1.608	2.034	0.067	5.674	6.378×10^4
300. GeV	3.001×10^5	1.998	2.520	3.208	0.100	7.827	7.873×10^4
400. GeV	4.001×10^5	2.022	3.461	4.426	0.133	10.043	8.999×10^4
800. GeV	8.001×10^5	2.080	7.342	9.418	0.269	19.111	1.184×10^5
1.00 TeV	1.000×10^6	2.099	9.333	11.973	0.338	23.744	1.278×10^5
1.40 TeV	1.400×10^6	2.128	13.319	17.064	0.478	32.992	1.420×10^5
2.00 TeV	2.000×10^6	2.159	19.411	24.835	0.692	47.099	1.571×10^5
3.00 TeV	3.000×10^6	2.195	29.571	37.745	1.057	70.570	1.744×10^5
4.00 TeV	4.000×10^6	2.220	39.857	50.793	1.428	94.301	1.866×10^5
8.00 TeV	8.000×10^6	2.284	81.292	103.230	2.963	189.771	2.159×10^5
10.0 TeV	1.000×10^7	2.304	102.156	129.585	3.750	237.798	2.253×10^5
14.0 TeV	1.400×10^7	2.336	143.769	182.174	5.366	333.647	2.394×10^5
20.0 TeV	2.000×10^7	2.370	206.520	261.392	7.840	478.125	2.544×10^5
30.0 TeV	3.000×10^7	2.410	311.086	393.174	12.112	718.784	2.713×10^5
40.0 TeV	4.000×10^7	2.438	416.017	525.259	16.482	960.200	2.833×10^5
80.0 TeV	8.000×10^7	2.509	835.699	1053.956	34.711	1926.878	3.121×10^5
100. TeV	1.000×10^8	2.532	1045.660	1318.540	44.120	2410.854	3.214×10^5