

Table 318: Muons in Element 114

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
114 ()	[288.]	??	1185.0	0.28745	3.0000	0.6910	3.0000	6.7208	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	3.461				3.461	1.731×10^0		
14.0 MeV	5.616×10^1	2.801				2.801	3.027×10^0		
20.0 MeV	6.802×10^1	2.258				2.258	5.434×10^0		
30.0 MeV	8.509×10^1	1.804				1.804	1.045×10^1		
40.0 MeV	1.003×10^2	1.567				1.567	1.643×10^1		
80.0 MeV	1.527×10^2	1.219				1.220	4.619×10^1		
100. MeV	1.764×10^2	1.159				1.159	6.305×10^1		
140. MeV	2.218×10^2	1.104				1.105	9.855×10^1		
200. MeV	2.868×10^2	1.085	0.000			1.085	1.535×10^2		
207. MeV	2.943×10^2	1.085	0.000			1.085	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.099	0.000		0.000	1.100	2.453×10^2		
400. MeV	4.945×10^2	1.128	0.000		0.000	1.129	3.350×10^2		
800. MeV	8.995×10^2	1.230	0.001		0.000	1.231	6.733×10^2		
1.00 GeV	1.101×10^3	1.267	0.002		0.000	1.269	8.332×10^2		
1.40 GeV	1.502×10^3	1.324	0.003		0.000	1.328	1.141×10^3		
2.00 GeV	2.103×10^3	1.384	0.005	0.000	0.001	1.391	1.582×10^3		
3.00 GeV	3.104×10^3	1.450	0.009	0.003	0.001	1.464	2.281×10^3		
4.00 GeV	4.104×10^3	1.495	0.014	0.006	0.001	1.517	2.952×10^3		
8.00 GeV	8.105×10^3	1.593	0.034	0.025	0.003	1.655	5.466×10^3		
10.0 GeV	1.011×10^4	1.622	0.045	0.036	0.004	1.707	6.655×10^3		
14.0 GeV	1.411×10^4	1.662	0.068	0.060	0.005	1.797	8.937×10^3		
20.0 GeV	2.011×10^4	1.702	0.107	0.101	0.007	1.918	1.217×10^4		
30.0 GeV	3.011×10^4	1.744	0.175	0.181	0.010	2.111	1.713×10^4		
40.0 GeV	4.011×10^4	1.771	0.247	0.269	0.014	2.303	2.167×10^4		
80.0 GeV	8.011×10^4	1.832	0.559	0.661	0.027	3.080	3.664×10^4		
100. GeV	1.001×10^5	1.851	0.724	0.873	0.033	3.483	4.275×10^4		
112. GeV	1.120×10^5	1.860	0.823	1.001	0.037	3.722	<i>Muon critical energy</i>		
140. GeV	1.401×10^5	1.879	1.062	1.310	0.047	4.299	5.307×10^4		
200. GeV	2.001×10^5	1.908	1.591	2.004	0.066	5.571	6.531×10^4		
300. GeV	3.001×10^5	1.941	2.493	3.161	0.099	7.696	8.053×10^4		
400. GeV	4.001×10^5	1.964	3.425	4.361	0.132	9.884	9.197×10^4		
800. GeV	8.001×10^5	2.020	7.266	9.282	0.267	18.838	1.208×10^5		
1.00 TeV	1.000×10^6	2.039	9.236	11.800	0.336	23.414	1.303×10^5		
1.40 TeV	1.400×10^6	2.067	13.181	16.819	0.476	32.545	1.447×10^5		
2.00 TeV	2.000×10^6	2.097	19.210	24.480	0.688	46.477	1.601×10^5		
3.00 TeV	3.000×10^6	2.132	29.264	37.206	1.051	69.655	1.776×10^5		
4.00 TeV	4.000×10^6	2.157	39.443	50.069	1.419	93.090	1.899×10^5		
8.00 TeV	8.000×10^6	2.218	80.445	101.761	2.945	187.372	2.196×10^5		
10.0 TeV	1.000×10^7	2.238	101.090	127.742	3.728	234.801	2.291×10^5		
14.0 TeV	1.400×10^7	2.269	142.267	179.584	5.334	329.457	2.435×10^5		
20.0 TeV	2.000×10^7	2.302	204.360	257.678	7.794	472.137	2.586×10^5		
30.0 TeV	3.000×10^7	2.341	307.830	387.590	12.040	709.803	2.757×10^5		
40.0 TeV	4.000×10^7	2.368	411.661	517.801	16.384	948.217	2.879×10^5		
80.0 TeV	8.000×10^7	2.437	826.936	1038.988	34.501	1902.863	3.171×10^5		
100. TeV	1.000×10^8	2.459	1034.690	1299.810	43.850	2380.812	3.265×10^5		