Table 322: Muons in Element 118

Z	A [g/mol]	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
118 ( )	[298.]	1.200×10^{-2}	1242.0	−0.07004	3.0000	2.0237	−1.9983	13.8764	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	3.407				3.407	1.769×10^0
14.0 MeV	5.616×10^1	2.765				2.765	3.082×10^0
20.0 MeV	6.802×10^1	2.234				2.234	5.519×10^0
30.0 MeV	8.509×10^1	1.787				1.787	1.058×10^1
40.0 MeV	1.003×10^2	1.554				1.554	1.662×10^1
80.0 MeV	1.527×10^2	1.211				1.211	4.661×10^1
100. MeV	1.764×10^2	1.151				1.152	6.358×10^1
140. MeV	2.218×10^2	1.098				1.098	9.931×10^1
200. MeV	2.868×10^2	1.079	0.000			1.079	1.546×10^2
206. MeV	2.933×10^2	1.078	0.000			1.079	*Minimum ionization*
300. MeV	3.917×10^2	1.094	0.000		0.000	1.094	2.469×10^2
400. MeV	4.945×10^2	1.122	0.000		0.000	1.123	3.371×10^2
800. MeV	8.995×10^2	1.231	0.001		0.000	1.233	6.762×10^2
1.00 GeV	1.101×10^3	1.274	0.002		0.000	1.277	8.355×10^2
1.40 GeV	1.502×10^3	1.343	0.003		0.000	1.347	1.140×10^3
2.00 GeV	2.103×10^3	1.420	0.006		0.001	1.427	1.572×10^3
3.00 GeV	3.104×10^3	1.510	0.010	0.003	0.001	1.524	2.249×10^3
4.00 GeV	4.104×10^3	1.575	0.014	0.006	0.001	1.598	2.889×10^3
8.00 GeV	8.105×10^3	1.731	0.035	0.026	0.003	1.796	5.237×10^3
10.0 GeV	1.011×10^4	1.781	0.047	0.037	0.004	1.870	6.328×10^3
14.0 GeV	1.411×10^4	2.104	0.072	0.062	0.005	2.244	8.258×10^3
20.0 GeV	2.011×10^4	2.139	0.112	0.104	0.007	2.363	1.086×10^4
30.0 GeV	3.011×10^4	2.177	0.184	0.188	0.010	2.560	1.493×10^4
40.0 GeV	4.011×10^4	2.203	0.260	0.280	0.014	2.757	1.869×10^4
80.0 GeV	8.011×10^4	2.262	0.587	0.688	0.027	3.566	3.142×10^4
100. GeV	1.001×10^5	2.281	0.761	0.909	0.033	3.986	3.673×10^4
129. GeV	1.294×10^5	2.302	1.020	1.240	0.043	4.606	*Muon critical energy*
140. GeV	1.401×10^5	2.309	1.117	1.364	0.046	4.837	4.583×10^4
200. GeV	2.001×10^5	2.338	1.673	2.087	0.066	6.166	5.680×10^4
300. GeV	3.001×10^5	2.371	2.621	3.293	0.099	8.386	7.066×10^4
400. GeV	4.001×10^5	2.394	3.600	4.544	0.132	10.673	8.121×10^4
800. GeV	8.001×10^5	2.451	7.636	9.675	0.267	20.031	1.081×10^5
1.00 TeV	1.000×10^6	2.469	9.707	12.301	0.335	24.814	1.171×10^5
1.40 TeV	1.400×10^6	2.497	13.852	17.534	0.475	34.359	1.307×10^5
2.00 TeV	2.000×10^6	2.527	20.185	25.521	0.687	48.923	1.453×10^5
3.00 TeV	3.000×10^6	2.562	30.748	38.791	1.049	73.152	1.619×10^5
4.00 TeV	4.000×10^6	2.587	41.442	52.202	1.417	97.650	1.737×10^5
8.00 TeV	8.000×10^6	2.648	84.515	106.101	2.941	196.207	2.020×10^5
10.0 TeV	1.000×10^7	2.668	106.201	133.191	3.722	245.785	2.111×10^5
14.0 TeV	1.400×10^7	2.699	149.455	187.247	5.325	344.729	2.248×10^5
20.0 TeV	2.000×10^7	2.732	214.680	268.676	7.780	493.871	2.393×10^5
30.0 TeV	3.000×10^7	2.771	323.367	404.126	12.018	742.285	2.557×10^5
40.0 TeV	4.000×10^7	2.799	432.431	539.888	16.353	991.473	2.673×10^5
80.0 TeV	8.000×10^7	2.867	868.636	1083.323	34.437	1989.264	2.952×10^5
100. TeV	1.000×10^8	2.889	1086.860	1355.290	43.770	2488.812	3.042×10^5