

Table 316: Muons in Element 112 (Unnamed)

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
112 ()	[277.1639]	??	1156.0	0.28185	3.0000	0.6681	3.0000	6.6506	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	3.562				3.562	1.678×10^0		
14.0 MeV	5.616×10^1	2.879				2.879	2.937×10^0		
20.0 MeV	6.802×10^1	2.319				2.319	5.281×10^0		
30.0 MeV	8.509×10^1	1.851				1.851	1.017×10^1		
40.0 MeV	1.003×10^2	1.607				1.607	1.600×10^1		
80.0 MeV	1.527×10^2	1.250				1.250	4.503×10^1		
100. MeV	1.764×10^2	1.188				1.188	6.148×10^1		
140. MeV	2.218×10^2	1.131				1.131	9.613×10^1		
200. MeV	2.868×10^2	1.111	0.000			1.111	1.498×10^2		
207. MeV	2.943×10^2	1.111	0.000			1.111	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.126	0.000		0.000	1.126	2.394×10^2		
400. MeV	4.945×10^2	1.155	0.000		0.000	1.155	3.271×10^2		
800. MeV	8.995×10^2	1.257	0.001		0.000	1.259	6.577×10^2		
1.00 GeV	1.101×10^3	1.295	0.002		0.000	1.297	8.141×10^2		
1.40 GeV	1.502×10^3	1.353	0.003		0.000	1.357	1.115×10^3		
2.00 GeV	2.103×10^3	1.414	0.005	0.000	0.001	1.420	1.547×10^3		
3.00 GeV	3.104×10^3	1.481	0.009	0.003	0.001	1.494	2.232×10^3		
4.00 GeV	4.104×10^3	1.526	0.014	0.006	0.001	1.548	2.889×10^3		
8.00 GeV	8.105×10^3	1.626	0.034	0.025	0.003	1.689	5.353×10^3		
10.0 GeV	1.011×10^4	1.655	0.045	0.037	0.004	1.741	6.519×10^3		
14.0 GeV	1.411×10^4	1.696	0.069	0.061	0.005	1.833	8.756×10^3		
20.0 GeV	2.011×10^4	1.737	0.108	0.103	0.007	1.955	1.192×10^4		
30.0 GeV	3.011×10^4	1.779	0.176	0.184	0.010	2.151	1.680×10^4		
40.0 GeV	4.011×10^4	1.807	0.249	0.273	0.014	2.344	2.125×10^4		
80.0 GeV	8.011×10^4	1.869	0.564	0.670	0.027	3.131	3.597×10^4		
100. GeV	1.001×10^5	1.888	0.730	0.884	0.034	3.538	4.198×10^4		
113. GeV	1.129×10^5	1.898	0.838	1.023	0.038	3.799	<i>Muon critical energy</i>		
140. GeV	1.401×10^5	1.917	1.072	1.326	0.047	4.363	5.215×10^4		
200. GeV	2.001×10^5	1.946	1.606	2.028	0.066	5.648	6.421×10^4		
300. GeV	3.001×10^5	1.980	2.516	3.198	0.100	7.796	7.923×10^4		
400. GeV	4.001×10^5	2.004	3.456	4.412	0.133	10.007	9.053×10^4		
800. GeV	8.001×10^5	2.061	7.331	9.391	0.268	19.054	1.190×10^5		
1.00 TeV	1.000×10^6	2.080	9.319	11.938	0.337	23.677	1.284×10^5		
1.40 TeV	1.400×10^6	2.109	13.300	17.015	0.478	32.903	1.427×10^5		
2.00 TeV	2.000×10^6	2.140	19.382	24.764	0.690	46.979	1.579×10^5		
3.00 TeV	3.000×10^6	2.175	29.527	37.637	1.055	70.397	1.752×10^5		
4.00 TeV	4.000×10^6	2.200	39.798	50.648	1.425	94.074	1.874×10^5		
8.00 TeV	8.000×10^6	2.263	81.171	102.937	2.958	189.331	2.168×10^5		
10.0 TeV	1.000×10^7	2.284	102.003	129.217	3.744	237.250	2.262×10^5		
14.0 TeV	1.400×10^7	2.315	143.553	181.657	5.356	332.884	2.404×10^5		
20.0 TeV	2.000×10^7	2.349	206.210	260.650	7.826	477.038	2.554×10^5		
30.0 TeV	3.000×10^7	2.388	310.619	392.060	12.089	717.158	2.723×10^5		
40.0 TeV	4.000×10^7	2.417	415.391	523.772	16.451	958.033	2.844×10^5		
80.0 TeV	8.000×10^7	2.486	834.437	1050.969	34.647	1922.543	3.132×10^5		
100. TeV	1.000×10^8	2.509	1044.080	1314.800	44.040	2405.432	3.225×10^5		