

Muons in bohrium (Bh)

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
107 (Bh)	[270.13336(4)]	??	1087.0	0.27391	3.0000	0.6345	3.0000	6.5475	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	3.559				3.559	1.669×10^0
14.0 MeV	5.616×10^1	2.869				2.869	2.931×10^0
20.0 MeV	6.802×10^1	2.305				2.305	5.287×10^0
30.0 MeV	8.509×10^1	1.836				1.836	1.021×10^1
40.0 MeV	1.003×10^2	1.593				1.593	1.609×10^1
80.0 MeV	1.527×10^2	1.237				1.237	4.540×10^1
100. MeV	1.764×10^2	1.175				1.175	6.203×10^1
140. MeV	2.218×10^2	1.118				1.119	9.707×10^1
200. MeV	2.868×10^2	1.098				1.098	1.514×10^2
207. MeV	2.943×10^2	1.097	0.000			1.098	<i>Minimum ionization</i>
300. MeV	3.917×10^2	1.112	0.000		0.000	1.112	2.421×10^2
400. MeV	4.945×10^2	1.139	0.000		0.000	1.140	3.309×10^2
800. MeV	8.995×10^2	1.238	0.001		0.000	1.240	6.664×10^2
1.00 GeV	1.101×10^3	1.274	0.002		0.000	1.277	8.253×10^2
1.40 GeV	1.502×10^3	1.330	0.003		0.000	1.334	1.131×10^3
2.00 GeV	2.103×10^3	1.389	0.005	0.000	0.001	1.396	1.571×10^3
3.00 GeV	3.104×10^3	1.454	0.009	0.003	0.001	1.468	2.268×10^3
4.00 GeV	4.104×10^3	1.498	0.013	0.006	0.001	1.520	2.937×10^3
8.00 GeV	8.105×10^3	1.595	0.032	0.025	0.003	1.656	5.449×10^3
10.0 GeV	1.011×10^4	1.624	0.042	0.036	0.004	1.706	6.639×10^3
14.0 GeV	1.411×10^4	1.664	0.065	0.059	0.005	1.794	8.923×10^3
20.0 GeV	2.011×10^4	1.704	0.101	0.098	0.007	1.911	1.216×10^4
30.0 GeV	3.011×10^4	1.745	0.165	0.175	0.011	2.098	1.715×10^4
40.0 GeV	4.011×10^4	1.773	0.234	0.260	0.014	2.282	2.172×10^4
80.0 GeV	8.011×10^4	1.834	0.529	0.637	0.027	3.028	3.690×10^4
100. GeV	1.001×10^5	1.852	0.686	0.841	0.034	3.414	4.312×10^4
116. GeV	1.165×10^5	1.865	0.816	1.010	0.039	3.731	<i>Muon critical energy</i>
140. GeV	1.401×10^5	1.880	1.006	1.260	0.047	4.195	5.367×10^4
200. GeV	2.001×10^5	1.909	1.508	1.926	0.067	5.411	6.625×10^4
300. GeV	3.001×10^5	1.942	2.362	3.036	0.100	7.442	8.195×10^4
400. GeV	4.001×10^5	1.965	3.245	4.188	0.133	9.534	9.380×10^4
800. GeV	8.001×10^5	2.022	6.885	8.910	0.269	18.089	1.238×10^5
1.00 TeV	1.000×10^6	2.040	8.753	11.326	0.338	22.460	1.337×10^5
1.40 TeV	1.400×10^6	2.068	12.493	16.141	0.479	31.183	1.487×10^5
2.00 TeV	2.000×10^6	2.098	18.208	23.490	0.692	44.491	1.648×10^5
3.00 TeV	3.000×10^6	2.133	27.740	35.701	1.058	66.634	1.830×10^5
4.00 TeV	4.000×10^6	2.158	37.393	48.041	1.429	89.023	1.960×10^5
8.00 TeV	8.000×10^6	2.220	76.272	97.631	2.965	179.090	2.270×10^5
10.0 TeV	1.000×10^7	2.240	95.850	122.553	3.753	224.398	2.370×10^5
14.0 TeV	1.400×10^7	2.271	134.899	172.293	5.370	314.834	2.519×10^5
20.0 TeV	2.000×10^7	2.304	193.786	247.220	7.846	451.158	2.678×10^5
30.0 TeV	3.000×10^7	2.342	291.912	371.855	12.121	678.233	2.857×10^5
40.0 TeV	4.000×10^7	2.370	390.383	496.776	16.494	906.025	2.984×10^5
80.0 TeV	8.000×10^7	2.438	784.231	996.797	34.735	1818.204	3.290×10^5
100. TeV	1.000×10^8	2.461	981.270	1247.030	44.150	2274.913	3.388×10^5