

**Table 318: Muons in Flerovium**

Z	A [g/mol]	$\rho$ [g/cm <sup>3</sup> ]	I [eV]	a	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
114 (Fl)	[289.187 (5)]	??	1185.0	0.28779	3.0000	0.6923	3.0000	6.7249	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod [MeV cm <sup>2</sup> /g]	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
10.0 MeV	$4.704 \times 10^1$	3.447				3.447	$1.738 \times 10^0$		
14.0 MeV	$5.616 \times 10^1$	2.790				2.790	$3.039 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	2.249				2.249	$5.457 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	1.796				1.796	$1.049 \times 10^1$		
40.0 MeV	$1.003 \times 10^2$	1.561				1.561	$1.650 \times 10^1$		
80.0 MeV	$1.527 \times 10^2$	1.214				1.215	$4.638 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.154				1.155	$6.331 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.100				1.100	$9.895 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.080	0.000			1.081	$1.542 \times 10^2$		
207. MeV	$2.943 \times 10^2$	1.080	0.000			1.080	<i>Minimum ionization</i>		
300. MeV	$3.917 \times 10^2$	1.095	0.000		0.000	1.095	$2.463 \times 10^2$		
400. MeV	$4.945 \times 10^2$	1.123	0.000		0.000	1.124	$3.364 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.225	0.001		0.000	1.226	$6.760 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.262	0.002		0.000	1.264	$8.366 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.319	0.003		0.000	1.323	$1.145 \times 10^3$		
2.00 GeV	$2.103 \times 10^3$	1.379	0.005	0.000	0.001	1.385	$1.588 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.445	0.009	0.003	0.001	1.458	$2.290 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	1.489	0.014	0.006	0.001	1.511	$2.964 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	1.587	0.034	0.025	0.003	1.649	$5.487 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	1.615	0.045	0.036	0.004	1.701	$6.681 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	1.656	0.068	0.060	0.005	1.791	$8.972 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	1.696	0.107	0.101	0.007	1.911	$1.221 \times 10^4$		
30.0 GeV	$3.011 \times 10^4$	1.737	0.175	0.181	0.010	2.104	$1.720 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	1.764	0.247	0.269	0.014	2.296	$2.174 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	1.825	0.559	0.661	0.027	3.073	$3.676 \times 10^4$		
100. GeV	$1.001 \times 10^5$	1.844	0.724	0.873	0.033	3.476	$4.288 \times 10^4$		
111. GeV	$1.116 \times 10^5$	1.853	0.819	0.996	0.037	3.707	<i>Muon critical energy</i>		
140. GeV	$1.401 \times 10^5$	1.871	1.062	1.310	0.047	4.292	$5.322 \times 10^4$		
200. GeV	$2.001 \times 10^5$	1.900	1.591	2.004	0.066	5.563	$6.548 \times 10^4$		
300. GeV	$3.001 \times 10^5$	1.933	2.493	3.161	0.099	7.688	$8.072 \times 10^4$		
400. GeV	$4.001 \times 10^5$	1.956	3.425	4.361	0.132	9.876	$9.217 \times 10^4$		
800. GeV	$8.001 \times 10^5$	2.012	7.266	9.282	0.267	18.830	$1.210 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.031	9.236	11.800	0.336	23.406	$1.305 \times 10^5$		
1.40 TeV	$1.400 \times 10^6$	2.059	13.181	16.819	0.476	32.537	$1.450 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.089	19.210	24.480	0.688	46.469	$1.603 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.123	29.264	37.206	1.051	69.647	$1.778 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.148	39.443	50.069	1.419	93.082	$1.902 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.209	80.445	101.761	2.945	187.363	$2.199 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.229	101.090	127.742	3.728	234.792	$2.294 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.260	142.267	179.584	5.334	329.448	$2.437 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	2.293	204.360	257.678	7.794	472.128	$2.588 \times 10^5$		
30.0 TeV	$3.000 \times 10^7$	2.331	307.830	387.590	12.040	709.794	$2.760 \times 10^5$		
40.0 TeV	$4.000 \times 10^7$	2.359	411.661	517.801	16.384	948.207	$2.881 \times 10^5$		
80.0 TeV	$8.000 \times 10^7$	2.427	826.936	1038.988	34.501	1902.853	$3.173 \times 10^5$		
100. TeV	$1.000 \times 10^8$	2.449	1034.690	1299.810	43.850	2380.802	$3.267 \times 10^5$		