Muons in lead fluoride (PbF_2)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.40784	7.770	635.4	0.23890	3.0000	0.4668	3.0000	6.0333	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	4.234				4.235	1.343×10^0
14.0 MeV	5.616×10^1	3.350				3.350	2.416×10^0
20.0 MeV	6.802×10^1	2.652				2.652	4.450×10^0
30.0 MeV	8.509×10^1	2.085				2.085	8.759×10^0
40.0 MeV	1.003×10^2	1.797				1.797	1.396×10^1
80.0 MeV	1.527×10^2	1.377				1.377	4.015×10^1
100. MeV	1.764×10^2	1.304				1.304	5.511×10^1
140. MeV	2.218×10^2	1.236				1.236	8.675×10^1
200. MeV	2.868×10^2	1.208				1.208	1.360×10^2
223. MeV	3.114×10^2	1.206				1.207	*Minimum ionization*
300. MeV	3.917×10^2	1.216	0.000		0.000	1.216	2.187×10^2
400. MeV	4.945×10^2	1.239	0.000		0.000	1.240	3.002×10^2
800. MeV	8.995×10^2	1.330	0.001		0.000	1.331	6.109×10^2
1.00 GeV	1.101×10^3	1.365	0.001		0.000	1.366	7.592×10^2
1.40 GeV	1.502×10^3	1.419	0.002		0.001	1.421	1.046×10^3
2.00 GeV	2.103×10^3	1.476	0.003	0.001	0.001	1.482	1.459×10^3
3.00 GeV	3.104×10^3	1.540	0.006	0.003	0.001	1.551	2.117×10^3
4.00 GeV	4.104×10^3	1.584	0.009	0.006	0.002	1.600	2.752×10^3
8.00 GeV	8.105×10^3	1.681	0.022	0.019	0.003	1.725	5.150×10^3
10.0 GeV	1.011×10^4	1.709	0.029	0.027	0.004	1.770	6.294×10^3
14.0 GeV	1.411×10^4	1.750	0.044	0.044	0.005	1.845	8.506×10^3
20.0 GeV	2.011×10^4	1.790	0.069	0.073	0.008	1.940	1.168×10^4
30.0 GeV	3.011×10^4	1.832	0.113	0.129	0.011	2.086	1.664×10^4
40.0 GeV	4.011×10^4	1.860	0.159	0.190	0.015	2.225	2.128×10^4
80.0 GeV	8.011×10^4	1.923	0.360	0.460	0.029	2.772	3.736×10^4
100. GeV	1.001×10^5	1.942	0.466	0.605	0.035	3.051	4.423×10^4
140. GeV	1.401×10^5	1.971	0.685	0.905	0.049	3.611	5.627×10^4
165. GeV	1.652×10^5	1.984	0.826	1.101	0.058	3.970	*Muon critical energy*
200. GeV	2.001×10^5	2.001	1.026	1.380	0.070	4.478	7.117×10^4
300. GeV	3.001×10^5	2.034	1.609	2.174	0.105	5.923	9.054×10^4
400. GeV	4.001×10^5	2.058	2.211	2.996	0.141	7.407	1.056×10^5
800. GeV	8.001×10^5	2.117	4.695	6.368	0.284	13.465	1.451×10^5
1.00 TeV	1.000×10^6	2.136	5.970	8.093	0.357	16.557	1.585×10^5
1.40 TeV	1.400×10^6	2.165	8.525	11.533	0.506	22.730	1.790×10^5
2.00 TeV	2.000×10^6	2.196	12.432	16.782	0.731	32.142	2.011×10^5
3.00 TeV	3.000×10^6	2.231	18.951	25.504	1.118	47.805	2.265×10^5
4.00 TeV	4.000×10^6	2.257	25.555	34.318	1.511	63.642	2.445×10^5
8.00 TeV	8.000×10^6	2.320	52.167	69.746	3.139	127.374	2.881×10^5
10.0 TeV	1.000×10^7	2.341	65.573	87.553	3.975	159.444	3.021×10^5
14.0 TeV	1.400×10^7	2.373	92.310	123.084	5.691	223.460	3.232×10^5
20.0 TeV	2.000×10^7	2.407	132.642	176.605	8.322	319.978	3.455×10^5
30.0 TeV	3.000×10^7	2.447	199.787	265.651	12.866	480.752	3.708×10^5
40.0 TeV	4.000×10^7	2.475	267.162	354.904	17.518	642.060	3.888×10^5
80.0 TeV	8.000×10^7	2.546	537.024	712.167	36.946	1288.684	4.319×10^5
100. TeV	1.000×10^8	2.569	672.164	890.961	46.983	1612.679	4.457×10^5