

Muons in lead glass SF5

$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.44522	4.080	334.4	0.19981	3.0000	0.2297	3.0000	5.3059	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	5.153				5.153	1.092×10^0	
14.0 MeV	5.616×10^1	4.056				4.056	1.975×10^0	
20.0 MeV	6.802×10^1	3.194				3.194	3.661×10^0	
30.0 MeV	8.509×10^1	2.500				2.500	7.248×10^0	
40.0 MeV	1.003×10^2	2.147				2.147	1.159×10^1	
80.0 MeV	1.527×10^2	1.633				1.633	3.361×10^1	
100. MeV	1.764×10^2	1.543				1.543	4.624×10^1	
140. MeV	2.218×10^2	1.456				1.456	7.305×10^1	
200. MeV	2.868×10^2	1.413				1.413	1.150×10^2	
252. MeV	3.421×10^2	1.406			0.000	1.406	<i>Minimum ionization</i>	
300. MeV	3.917×10^2	1.409	0.000		0.000	1.410		
400. MeV	4.945×10^2	1.428	0.000		0.000	1.428		
800. MeV	8.995×10^2	1.514	0.001		0.000	1.515		
1.00 GeV	1.101×10^3	1.549	0.001		0.000	1.550	6.586×10^2	
1.40 GeV	1.502×10^3	1.604	0.001		0.001	1.606	9.119×10^2	
2.00 GeV	2.103×10^3	1.663	0.002	0.001	0.001	1.667	1.278×10^3	
3.00 GeV	3.104×10^3	1.729	0.004	0.002	0.001	1.737	1.865×10^3	
4.00 GeV	4.104×10^3	1.775	0.006	0.004	0.002	1.787	2.432×10^3	
8.00 GeV	8.105×10^3	1.876	0.015	0.014	0.003	1.909	4.590×10^3	
10.0 GeV	1.011×10^4	1.907	0.020	0.019	0.004	1.951	5.625×10^3	
14.0 GeV	1.411×10^4	1.950	0.031	0.032	0.006	2.020	7.639×10^3	
20.0 GeV	2.011×10^4	1.993	0.049	0.052	0.008	2.103	1.055×10^4	
30.0 GeV	3.011×10^4	2.039	0.080	0.092	0.012	2.223	1.517×10^4	
40.0 GeV	4.011×10^4	2.069	0.113	0.136	0.016	2.334	1.956×10^4	
80.0 GeV	8.011×10^4	2.137	0.255	0.328	0.030	2.751	3.532×10^4	
100. GeV	1.001×10^5	2.158	0.330	0.432	0.038	2.959	4.233×10^4	
140. GeV	1.401×10^5	2.189	0.485	0.646	0.052	3.373	5.498×10^4	
200. GeV	2.001×10^5	2.222	0.727	0.985	0.074	4.009	7.128×10^4	
245. GeV	2.452×10^5	2.240	0.911	1.238	0.091	4.482	<i>Muon critical energy</i>	
300. GeV	3.001×10^5	2.259	1.140	1.553	0.112	5.065		
400. GeV	4.001×10^5	2.285	1.568	2.142	0.149	6.144		
800. GeV	8.001×10^5	2.349	3.332	4.559	0.301	10.542		
1.00 TeV	1.000×10^6	2.370	4.238	5.797	0.378	12.783	1.777×10^5	
1.40 TeV	1.400×10^6	2.401	6.055	8.264	0.535	17.257	2.045×10^5	
2.00 TeV	2.000×10^6	2.435	8.834	12.031	0.774	24.075	2.338×10^5	
3.00 TeV	3.000×10^6	2.474	13.474	18.291	1.185	35.424	2.679×10^5	
4.00 TeV	4.000×10^6	2.502	18.175	24.619	1.602	46.899	2.923×10^5	
8.00 TeV	8.000×10^6	2.571	37.130	50.060	3.333	93.095	3.517×10^5	
10.0 TeV	1.000×10^7	2.594	46.682	62.849	4.222	116.348	3.709×10^5	
14.0 TeV	1.400×10^7	2.628	65.736	88.366	6.051	162.782	3.998×10^5	
20.0 TeV	2.000×10^7	2.666	94.486	126.808	8.855	232.816	4.305×10^5	
30.0 TeV	3.000×10^7	2.709	142.341	190.767	13.708	349.526	4.653×10^5	
40.0 TeV	4.000×10^7	2.740	190.367	254.881	18.679	466.667	4.900×10^5	
80.0 TeV	8.000×10^7	2.817	382.764	511.521	39.471	936.573	5.493×10^5	
100. TeV	1.000×10^8	2.842	479.126	639.962	50.223	1172.155	5.683×10^5	