

## Muons in plate glass

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.49731	2.400	145.4	0.07678	3.5381	0.1237	3.0649	4.0602	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
10.0 MeV	$4.704 \times 10^1$	6.525				6.525	$8.528 \times 10^{-1}$		
14.0 MeV	$5.616 \times 10^1$	5.107				5.107	$1.553 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	4.002				4.002	$2.895 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	3.115				3.115	$5.766 \times 10^0$		
40.0 MeV	$1.003 \times 10^2$	2.666				2.666	$9.258 \times 10^0$		
80.0 MeV	$1.527 \times 10^2$	2.011				2.011	$2.707 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.890				1.890	$3.736 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.769				1.769	$5.933 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.703				1.703	$9.402 \times 10^1$		
288. MeV	$3.788 \times 10^2$	1.684			0.000	1.684	<i>Minimum ionization</i>		
300. MeV	$3.917 \times 10^2$	1.684			0.000	1.684	$1.532 \times 10^2$		
400. MeV	$4.945 \times 10^2$	1.695			0.000	1.696	$2.125 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.774	0.000		0.000	1.775	$4.430 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.808	0.000		0.000	1.809	$5.546 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.862	0.001	0.000	0.001	1.863	$7.723 \times 10^2$		
2.00 GeV	$2.103 \times 10^3$	1.921	0.001	0.000	0.001	1.923	$1.089 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.988	0.002	0.001	0.001	1.992	$1.599 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	2.034	0.002	0.002	0.002	2.040	$2.095 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	2.139	0.005	0.005	0.004	2.153	$3.997 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	2.170	0.007	0.007	0.005	2.189	$4.918 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	2.216	0.011	0.012	0.006	2.245	$6.721 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	2.262	0.017	0.019	0.009	2.307	$9.356 \times 10^3$		
30.0 GeV	$3.011 \times 10^4$	2.311	0.028	0.034	0.013	2.385	$1.362 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	2.344	0.039	0.050	0.017	2.450	$1.775 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	2.419	0.088	0.119	0.033	2.660	$3.339 \times 10^4$		
100. GeV	$1.001 \times 10^5$	2.443	0.114	0.157	0.041	2.756	$4.078 \times 10^4$		
140. GeV	$1.401 \times 10^5$	2.477	0.168	0.235	0.057	2.939	$5.483 \times 10^4$		
200. GeV	$2.001 \times 10^5$	2.514	0.253	0.359	0.081	3.207	$7.437 \times 10^4$		
300. GeV	$3.001 \times 10^5$	2.555	0.398	0.569	0.121	3.644	$1.036 \times 10^5$		
400. GeV	$4.001 \times 10^5$	2.585	0.549	0.788	0.161	4.083	$1.295 \times 10^5$		
671. GeV	$6.712 \times 10^5$	2.638	0.969	1.396	0.273	5.276	<i>Muon critical energy</i>		
800. GeV	$8.001 \times 10^5$	2.656	1.173	1.691	0.326	5.846	$2.110 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.679	1.495	2.155	0.410	6.739	$2.428 \times 10^5$		
1.40 TeV	$1.400 \times 10^6$	2.714	2.142	3.081	0.581	8.518	$2.955 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.752	3.134	4.497	0.842	11.225	$3.567 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.795	4.795	6.852	1.289	15.733	$4.316 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.827	6.482	9.238	1.744	20.291	$4.874 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.904	13.302	18.839	3.636	38.682	$6.278 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.929	16.746	23.671	4.610	47.957	$6.741 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.968	23.621	33.304	6.614	66.507	$7.447 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	3.010	34.012	47.825	9.691	94.539	$8.200 \times 10^5$		
30.0 TeV	$3.000 \times 10^7$	3.058	51.296	71.993	15.025	141.373	$9.059 \times 10^5$		
40.0 TeV	$4.000 \times 10^7$	3.093	68.658	96.232	20.495	188.479	$9.670 \times 10^5$		
80.0 TeV	$8.000 \times 10^7$	3.179	138.275	193.265	43.419	378.138	$1.114 \times 10^6$		
100. TeV	$1.000 \times 10^8$	3.207	173.170	241.835	55.289	473.501	$1.161 \times 10^6$		