

**Table 126: Muons in C-552 air-equivalent plastic**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.49969	1.760	86.8	0.10492	3.4344	0.1510	2.7083	3.3338	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	$4.704 \times 10^1$	7.034				7.034	$7.867 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	5.491				5.491	$1.437 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.291				4.291	$2.687 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.332				3.332	$5.369 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	2.846				2.846	$8.638 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.138				2.138	$2.536 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.004				2.004	$3.505 \times 10^1$	
140. MeV	$2.218 \times 10^2$	1.867				1.867	$5.583 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.789				1.789	$8.878 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.760			0.000	1.760	$1.453 \times 10^2$	
313. MeV	$4.055 \times 10^2$	1.760			0.000	1.760	<i>Minimum ionization</i>	
400. MeV	$4.945 \times 10^2$	1.766			0.000	1.767	$2.020 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.835	0.000		0.000	1.835	$4.242 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.866	0.000		0.000	1.867	$5.323 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	1.916	0.000		0.001	1.917	$7.436 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	1.972	0.001	0.000	0.001	1.974	$1.052 \times 10^3$	
3.00 GeV	$3.104 \times 10^3$	2.035	0.001	0.001	0.001	2.038	$1.550 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.079	0.001	0.001	0.002	2.083	$2.035 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.179	0.003	0.003	0.004	2.190	$3.902 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.209	0.005	0.005	0.005	2.223	$4.808 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.253	0.007	0.008	0.007	2.275	$6.586 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.298	0.011	0.013	0.009	2.331	$9.190 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.346	0.018	0.022	0.013	2.400	$1.342 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.379	0.026	0.032	0.017	2.454	$1.753 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.454	0.058	0.078	0.034	2.625	$3.327 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.478	0.075	0.103	0.042	2.699	$4.078 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.513	0.111	0.155	0.058	2.837	$5.523 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.549	0.167	0.237	0.083	3.037	$7.567 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.591	0.264	0.376	0.124	3.355	$1.070 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.620	0.364	0.521	0.165	3.671	$1.355 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.692	0.781	1.125	0.334	4.933	$2.291 \times 10^5$	
953. GeV	$9.536 \times 10^5$	2.710	0.945	1.364	0.400	5.421	<i>Muon critical energy</i>	
1.00 TeV	$1.000 \times 10^6$	2.715	0.996	1.438	0.420	5.569	$2.673 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.751	1.429	2.058	0.596	6.834	$3.320 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.788	2.095	3.010	0.863	8.756	$4.094 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.832	3.210	4.593	1.323	11.959	$5.067 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	2.864	4.345	6.199	1.790	15.197	$5.807 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	2.941	8.937	12.664	3.735	28.277	$7.707 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	2.967	11.258	15.920	4.737	34.882	$8.343 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.006	15.890	22.409	6.800	48.105	$9.315 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.048	22.895	32.195	9.970	68.107	$1.036 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.096	34.558	48.478	15.470	101.603	$1.155 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.131	46.282	64.813	21.115	135.341	$1.240 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.217	93.278	130.210	44.797	271.502	$1.445 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.246	116.833	162.947	57.070	340.096	$1.511 \times 10^6$	