

**Table 208: Muons in Nylon du Pont Elvamide 8062M**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.55063	1.080	64.3	0.11513	3.4044	0.1503	2.6004	3.1250	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	$4.704 \times 10^1$	8.058				8.058	$6.849 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	6.281				6.281	$1.253 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.902				4.902	$2.347 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.800				3.800	$4.696 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.243				3.243	$7.563 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.431				2.431	$2.226 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.276				2.276	$3.079 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.117				2.117	$4.910 \times 10^1$	
200. MeV	$2.868 \times 10^2$	2.025				2.025	$7.819 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.988			0.000	1.988	$1.282 \times 10^2$	
324. MeV	$4.161 \times 10^2$	1.987			0.000	1.987	<i>Minimum ionization</i>	
400. MeV	$4.945 \times 10^2$	1.992			0.000	1.993	$1.785 \times 10^2$	
800. MeV	$8.995 \times 10^2$	2.064	0.000		0.000	2.064	$3.758 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	2.097	0.000		0.000	2.098	$4.719 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.151	0.000		0.001	2.152	$6.600 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.211	0.000	0.000	0.001	2.213	$9.348 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.279	0.001	0.001	0.001	2.282	$1.379 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.326	0.001	0.001	0.002	2.331	$1.813 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.435	0.003	0.003	0.004	2.445	$3.483 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.469	0.004	0.004	0.005	2.482	$4.295 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.517	0.006	0.007	0.007	2.536	$5.888 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.566	0.010	0.011	0.009	2.596	$8.225 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.618	0.016	0.019	0.014	2.667	$1.202 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.655	0.022	0.028	0.018	2.723	$1.573 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.738	0.051	0.068	0.035	2.892	$2.996 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.763	0.066	0.090	0.043	2.963	$3.680 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.802	0.098	0.136	0.059	3.095	$5.000 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.842	0.147	0.208	0.084	3.282	$6.882 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.888	0.232	0.331	0.126	3.578	$9.799 \times 10^4$	
400. GeV	$4.001 \times 10^5$	2.921	0.321	0.459	0.168	3.869	$1.249 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.999	0.690	0.993	0.340	5.023	$2.153 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	3.025	0.881	1.269	0.427	5.603	$2.530 \times 10^5$	
1.17 TeV	$1.168 \times 10^6$	3.043	1.042	1.499	0.502	6.086	<i>Muon critical energy</i>	
1.40 TeV	$1.400 \times 10^6$	3.064	1.266	1.819	0.606	6.756	$3.179 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	3.106	1.858	2.663	0.878	8.505	$3.969 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	3.154	2.851	4.068	1.346	11.419	$4.981 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.189	3.862	5.494	1.821	14.366	$5.760 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.274	7.957	11.237	3.802	26.271	$7.789 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.302	10.030	14.130	4.823	32.285	$8.475 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.345	14.166	19.893	6.927	44.333	$9.528 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.391	20.426	28.589	10.161	62.567	$1.066 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.445	30.850	43.055	15.776	93.125	$1.196 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.483	41.333	57.568	21.540	123.925	$1.289 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.578	83.363	115.674	45.745	248.361	$1.513 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.609	104.434	144.763	58.296	311.103	$1.585 \times 10^6$	