

## Muons in Nylon (type 6, 6/6) $[(\text{CH}(\text{CH}_2)_5\text{NO})_n]$

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.54790	1.180	63.9	0.11818	3.3826	0.1261	2.5759	3.0289	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
10.0 MeV	$4.704 \times 10^1$	8.024				8.025	$6.877 \times 10^{-1}$		
14.0 MeV	$5.616 \times 10^1$	6.255				6.255	$1.258 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	4.881				4.881	$2.357 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	3.784				3.784	$4.716 \times 10^0$		
40.0 MeV	$1.003 \times 10^2$	3.229				3.230	$7.596 \times 10^0$		
80.0 MeV	$1.527 \times 10^2$	2.416				2.417	$2.236 \times 10^1$		
100. MeV	$1.764 \times 10^2$	2.262				2.262	$3.094 \times 10^1$		
140. MeV	$2.218 \times 10^2$	2.103				2.103	$4.937 \times 10^1$		
200. MeV	$2.868 \times 10^2$	2.011				2.011	$7.865 \times 10^1$		
300. MeV	$3.917 \times 10^2$	1.974			0.000	1.974	$1.290 \times 10^2$		
328. MeV	$4.201 \times 10^2$	1.973			0.000	1.973	<i>Minimum ionization</i>		
400. MeV	$4.945 \times 10^2$	1.978			0.000	1.978	$1.796 \times 10^2$		
800. MeV	$8.995 \times 10^2$	2.048	0.000		0.000	2.049	$3.784 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	2.081	0.000		0.000	2.082	$4.752 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	2.135	0.000		0.001	2.136	$6.648 \times 10^2$		
2.00 GeV	$2.103 \times 10^3$	2.194	0.000	0.000	0.001	2.196	$9.417 \times 10^2$		
3.00 GeV	$3.104 \times 10^3$	2.261	0.001	0.001	0.001	2.264	$1.390 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	2.308	0.001	0.001	0.002	2.313	$1.826 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	2.417	0.003	0.003	0.004	2.427	$3.510 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	2.449	0.004	0.004	0.005	2.463	$4.328 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	2.497	0.006	0.007	0.007	2.517	$5.934 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	2.546	0.010	0.011	0.009	2.576	$8.288 \times 10^3$		
30.0 GeV	$3.011 \times 10^4$	2.598	0.016	0.019	0.014	2.647	$1.212 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	2.634	0.022	0.028	0.018	2.703	$1.585 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	2.717	0.051	0.069	0.035	2.871	$3.019 \times 10^4$		
100. GeV	$1.001 \times 10^5$	2.743	0.066	0.091	0.043	2.943	$3.706 \times 10^4$		
140. GeV	$1.401 \times 10^5$	2.781	0.098	0.136	0.059	3.075	$5.036 \times 10^4$		
200. GeV	$2.001 \times 10^5$	2.821	0.148	0.209	0.084	3.262	$6.930 \times 10^4$		
300. GeV	$3.001 \times 10^5$	2.867	0.233	0.332	0.126	3.558	$9.863 \times 10^4$		
400. GeV	$4.001 \times 10^5$	2.899	0.322	0.460	0.168	3.850	$1.256 \times 10^5$		
800. GeV	$8.001 \times 10^5$	2.977	0.693	0.996	0.340	5.007	$2.165 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	3.003	0.884	1.274	0.427	5.588	$2.543 \times 10^5$		
1.16 TeV	$1.157 \times 10^6$	3.020	1.034	1.488	0.497	6.040	<i>Muon critical energy</i>		
1.40 TeV	$1.400 \times 10^6$	3.042	1.270	1.826	0.606	6.744	$3.193 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	3.083	1.864	2.672	0.877	8.498	$3.985 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	3.131	2.860	4.082	1.345	11.418	$4.996 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	3.166	3.874	5.512	1.820	14.372	$5.775 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	3.251	7.982	11.273	3.800	26.306	$7.802 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	3.279	10.061	14.176	4.820	32.336	$8.487 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	3.322	14.209	19.959	6.922	44.412	$9.538 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	3.368	20.487	28.682	10.153	62.690	$1.067 \times 10^6$		
30.0 TeV	$3.000 \times 10^7$	3.421	30.941	43.195	15.764	93.320	$1.197 \times 10^6$		
40.0 TeV	$4.000 \times 10^7$	3.459	41.454	57.756	21.524	124.192	$1.290 \times 10^6$		
80.0 TeV	$8.000 \times 10^7$	3.553	83.604	116.050	45.708	248.916	$1.513 \times 10^6$		
100. TeV	$1.000 \times 10^8$	3.585	104.736	145.233	58.248	311.801	$1.584 \times 10^6$		