

**Table 224: Muons in Polyoxymethylene (CH<sub>2</sub>O)<sub>n</sub>**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.53287	1.425	77.4	0.10808	3.4002	0.1584	2.6838	3.2514	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	$4.704 \times 10^1$	7.615				7.615	$7.260 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	5.941				5.941	$1.327 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.640				4.640	$2.483 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.600				3.600	$4.964 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.075				3.075	$7.989 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.309				2.309	$2.348 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.163				2.163	$3.245 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.013				2.013	$5.172 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.927				1.927	$8.229 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.894			0.000	1.894	$1.348 \times 10^2$	
318. MeV	$4.105 \times 10^2$	1.894			0.000	1.894	<i>Minimum ionization</i>	
400. MeV	$4.945 \times 10^2$	1.900			0.000	1.900	$1.875 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.971	0.000		0.000	1.972	$3.943 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	2.004	0.000		0.000	2.005	$4.948 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.057	0.000		0.001	2.058	$6.916 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.116	0.001	0.000	0.001	2.118	$9.788 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.183	0.001	0.001	0.001	2.186	$1.443 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.229	0.001	0.001	0.002	2.234	$1.895 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.336	0.003	0.003	0.004	2.346	$3.637 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.368	0.004	0.004	0.005	2.382	$4.483 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.415	0.007	0.007	0.007	2.436	$6.143 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.463	0.011	0.012	0.009	2.495	$8.575 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.514	0.017	0.021	0.013	2.566	$1.252 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.549	0.025	0.031	0.018	2.623	$1.638 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.629	0.056	0.076	0.034	2.796	$3.112 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.654	0.073	0.100	0.042	2.870	$3.818 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.692	0.108	0.150	0.059	3.009	$5.179 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.731	0.163	0.230	0.084	3.207	$7.110 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.775	0.257	0.365	0.125	3.523	$1.008 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.806	0.354	0.507	0.167	3.834	$1.280 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.883	0.761	1.095	0.337	5.076	$2.184 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.907	0.971	1.399	0.424	5.701	$2.556 \times 10^5$	
1.04 TeV	$1.040 \times 10^6$	2.912	1.012	1.458	0.441	5.824	<i>Muon critical energy</i>	
1.40 TeV	$1.400 \times 10^6$	2.945	1.394	2.004	0.601	6.944	$3.190 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.986	2.044	2.931	0.870	8.831	$3.955 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	3.032	3.133	4.475	1.334	11.974	$4.924 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.066	4.242	6.040	1.805	15.153	$5.665 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.149	8.731	12.346	3.767	27.993	$7.578 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.176	11.002	15.522	4.778	34.478	$8.220 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.217	15.533	21.850	6.861	47.461	$9.205 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.262	22.387	31.395	10.061	67.105	$1.026 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.314	33.800	47.276	15.616	100.006	$1.148 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.351	45.274	63.209	21.318	133.151	$1.234 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.443	91.282	126.994	45.246	266.965	$1.442 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.473	114.348	158.924	57.650	334.395	$1.509 \times 10^6$	