

Muons in parylene $[(\text{CH}_2\text{C}_6\text{H}_4\text{C}_2)_n]$

$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
0.53769	1.060	66.0	0.39414	3.0000	0.2000	2.0000	3.2197	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm ²]	
		[MeV cm ² /g]						
10.0 MeV	4.704×10^1	7.843				7.843	7.039×10^{-1}	
14.0 MeV	5.616×10^1	6.114				6.114	1.288×10^0	
20.0 MeV	6.802×10^1	4.772				4.772	2.411×10^0	
30.0 MeV	8.509×10^1	3.700				3.700	4.825×10^0	
40.0 MeV	1.003×10^2	3.158				3.158	7.769×10^0	
80.0 MeV	1.527×10^2	2.369				2.369	2.286×10^1	
100. MeV	1.764×10^2	2.225				2.225	3.159×10^1	
140. MeV	2.218×10^2	2.075				2.075	5.029×10^1	
200. MeV	2.868×10^2	1.989				1.989	7.993×10^1	
300. MeV	3.917×10^2	1.957			0.000	1.957	1.308×10^2	
318. MeV	4.105×10^2	1.956			0.000	1.956	<i>Minimum ionization</i>	
400. MeV	4.945×10^2	1.963			0.000	1.963	1.818×10^2	
800. MeV	8.995×10^2	2.034	0.000		0.000	2.034	3.821×10^2	
1.00 GeV	1.101×10^3	2.066	0.000		0.000	2.067	4.796×10^2	
1.40 GeV	1.502×10^3	2.118	0.000		0.001	2.119	6.706×10^2	
2.00 GeV	2.103×10^3	2.174	0.000	0.000	0.001	2.176	9.498×10^2	
3.00 GeV	3.104×10^3	2.239	0.001	0.001	0.001	2.241	1.402×10^3	
4.00 GeV	4.104×10^3	2.283	0.001	0.001	0.002	2.287	1.844×10^3	
8.00 GeV	8.105×10^3	2.385	0.003	0.003	0.004	2.394	3.548×10^3	
10.0 GeV	1.011×10^4	2.416	0.004	0.004	0.005	2.429	4.377×10^3	
14.0 GeV	1.411×10^4	2.462	0.006	0.006	0.007	2.481	6.006×10^3	
20.0 GeV	2.011×10^4	2.509	0.009	0.010	0.009	2.538	8.396×10^3	
30.0 GeV	3.011×10^4	2.560	0.015	0.018	0.014	2.608	1.228×10^4	
40.0 GeV	4.011×10^4	2.596	0.021	0.027	0.018	2.662	1.607×10^4	
80.0 GeV	8.011×10^4	2.677	0.049	0.065	0.035	2.826	3.063×10^4	
100. GeV	1.001×10^5	2.702	0.063	0.086	0.043	2.895	3.763×10^4	
140. GeV	1.401×10^5	2.740	0.093	0.130	0.059	3.022	5.115×10^4	
200. GeV	2.001×10^5	2.779	0.141	0.199	0.084	3.203	7.042×10^4	
300. GeV	3.001×10^5	2.824	0.222	0.316	0.126	3.489	1.003×10^5	
400. GeV	4.001×10^5	2.855	0.307	0.439	0.168	3.770	1.279×10^5	
800. GeV	8.001×10^5	2.932	0.661	0.951	0.340	4.885	2.208×10^5	
1.00 TeV	1.000×10^6	2.957	0.844	1.216	0.428	5.445	2.596×10^5	
1.18 TeV	1.183×10^6	2.976	1.011	1.456	0.509	5.953	<i>Muon critical energy</i>	
1.40 TeV	1.400×10^6	2.995	1.212	1.743	0.606	6.558	3.264×10^5	
2.00 TeV	2.000×10^6	3.036	1.779	2.552	0.878	8.246	4.079×10^5	
3.00 TeV	3.000×10^6	3.084	2.730	3.899	1.346	11.059	5.122×10^5	
4.00 TeV	4.000×10^6	3.117	3.698	5.266	1.822	13.904	5.927×10^5	
8.00 TeV	8.000×10^6	3.201	7.621	10.772	3.804	25.399	8.025×10^5	
10.0 TeV	1.000×10^7	3.228	9.606	13.547	4.825	31.207	8.734×10^5	
14.0 TeV	1.400×10^7	3.270	13.568	19.074	6.931	42.843	9.824×10^5	
20.0 TeV	2.000×10^7	3.315	19.563	27.412	10.166	60.456	1.100×10^6	
30.0 TeV	3.000×10^7	3.367	29.546	41.284	15.784	89.981	1.234×10^6	
40.0 TeV	4.000×10^7	3.405	39.586	55.202	21.551	119.744	1.330×10^6	
80.0 TeV	8.000×10^7	3.498	79.826	110.925	45.767	240.016	1.562×10^6	
100. TeV	1.000×10^8	3.528	99.994	138.821	58.325	300.668	1.636×10^6	