

Muons in polytrifluorochloroethylene [(C₂F₃Cl)_n]

$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
0.48081	2.100	120.7	0.07727	3.5085	0.1714	3.0265	3.8551	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod [MeV cm ² /g]	Photonucl	Total	CSDA range [g/cm ²]	
10.0 MeV	4.704×10^1	6.474				6.474	8.577×10^{-1}	
14.0 MeV	5.616×10^1	5.063				5.063	1.564×10^0	
20.0 MeV	6.802×10^1	3.963				3.963	2.918×10^0	
30.0 MeV	8.509×10^1	3.082				3.082	5.819×10^0	
40.0 MeV	1.003×10^2	2.636				2.636	9.351×10^0	
80.0 MeV	1.527×10^2	1.986				1.986	2.738×10^1	
100. MeV	1.764×10^2	1.866				1.866	3.780×10^1	
140. MeV	2.218×10^2	1.743				1.743	6.008×10^1	
200. MeV	2.868×10^2	1.675				1.675	9.533×10^1	
298. MeV	3.894×10^2	1.652			0.000	1.653		<i>Minimum ionization</i>
300. MeV	3.917×10^2	1.652			0.000	1.653	1.556×10^2	
400. MeV	4.945×10^2	1.662			0.000	1.662	2.160×10^2	
800. MeV	8.995×10^2	1.734	0.000		0.000	1.735	4.516×10^2	
1.00 GeV	1.101×10^3	1.766	0.000		0.000	1.767	5.658×10^2	
1.40 GeV	1.502×10^3	1.817	0.000	0.000	0.001	1.819	7.888×10^2	
2.00 GeV	2.103×10^3	1.873	0.001	0.000	0.001	1.875	1.113×10^3	
3.00 GeV	3.104×10^3	1.937	0.001	0.001	0.001	1.941	1.637×10^3	
4.00 GeV	4.104×10^3	1.981	0.002	0.002	0.002	1.986	2.146×10^3	
8.00 GeV	8.105×10^3	2.081	0.005	0.005	0.004	2.095	4.101×10^3	
10.0 GeV	1.011×10^4	2.111	0.006	0.007	0.005	2.129	5.047×10^3	
14.0 GeV	1.411×10^4	2.155	0.010	0.011	0.006	2.182	6.902×10^3	
20.0 GeV	2.011×10^4	2.199	0.015	0.018	0.009	2.241	9.613×10^3	
30.0 GeV	3.011×10^4	2.247	0.025	0.031	0.013	2.315	1.400×10^4	
40.0 GeV	4.011×10^4	2.278	0.035	0.045	0.017	2.376	1.826×10^4	
80.0 GeV	8.011×10^4	2.351	0.080	0.108	0.033	2.573	3.441×10^4	
100. GeV	1.001×10^5	2.374	0.104	0.142	0.041	2.661	4.205×10^4	
140. GeV	1.401×10^5	2.408	0.153	0.214	0.057	2.831	5.662×10^4	
200. GeV	2.001×10^5	2.443	0.229	0.326	0.081	3.080	7.693×10^4	
300. GeV	3.001×10^5	2.483	0.361	0.517	0.121	3.482	1.074×10^5	
400. GeV	4.001×10^5	2.511	0.497	0.715	0.162	3.885	1.346×10^5	
709. GeV	7.094×10^5	2.568	0.933	1.346	0.289	5.136		<i>Muon critical energy</i>
800. GeV	8.001×10^5	2.580	1.063	1.535	0.327	5.505	2.207×10^5	
1.00 TeV	1.000×10^6	2.602	1.355	1.957	0.411	6.326	2.546×10^5	
1.40 TeV	1.400×10^6	2.636	1.942	2.798	0.583	7.960	3.108×10^5	
2.00 TeV	2.000×10^6	2.673	2.843	4.084	0.844	10.445	3.764×10^5	
3.00 TeV	3.000×10^6	2.715	4.351	6.225	1.293	14.584	4.571×10^5	
4.00 TeV	4.000×10^6	2.745	5.882	8.393	1.749	18.771	5.174×10^5	
8.00 TeV	8.000×10^6	2.820	12.075	17.121	3.648	35.664	6.694×10^5	
10.0 TeV	1.000×10^7	2.845	15.203	21.514	4.625	44.186	7.197×10^5	
14.0 TeV	1.400×10^7	2.882	21.444	30.270	6.636	61.233	7.963×10^5	
20.0 TeV	2.000×10^7	2.922	30.879	43.470	9.724	86.996	8.781×10^5	
30.0 TeV	3.000×10^7	2.969	46.577	65.441	15.079	130.066	9.715×10^5	
40.0 TeV	4.000×10^7	3.003	62.347	87.477	20.571	173.399	1.038×10^6	
80.0 TeV	8.000×10^7	3.085	125.572	175.693	43.590	347.941	1.198×10^6	
100. TeV	1.000×10^8	3.113	157.261	219.849	55.511	435.734	1.249×10^6	