

## Muons in stilbene ( $C_6H_5$ )CHCH( $C_6H_5$ )

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.53260	0.971	67.7	0.16659	3.2168	0.1734	2.5142	3.3680	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
				[MeV cm <sup>2</sup> /g]					
10.0 MeV	$4.704 \times 10^1$	7.743				7.743		$7.131 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	6.037				6.037		$1.304 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.713				4.713		$2.442 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.654				3.654		$4.886 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.119				3.119		$7.867 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.340				2.340		$2.314 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.194				2.194		$3.199 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.044				2.044		$5.097 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.957				1.957		$8.109 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.924			0.000	1.924		$1.328 \times 10^2$	
318. MeV	$4.105 \times 10^2$	1.923			0.000	1.923			<i>Minimum ionization</i>
400. MeV	$4.945 \times 10^2$	1.930			0.000	1.930		$1.847 \times 10^2$	
800. MeV	$8.995 \times 10^2$	2.002	0.000		0.000	2.002		$3.883 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	2.035	0.000		0.000	2.036		$4.873 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.088	0.000		0.001	2.090		$6.811 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.147	0.000	0.000	0.001	2.149		$9.640 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.214	0.001	0.001	0.001	2.217		$1.422 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.261	0.001	0.001	0.002	2.265		$1.868 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.367	0.003	0.003	0.004	2.377		$3.586 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.399	0.004	0.004	0.005	2.412		$4.421 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.446	0.006	0.006	0.007	2.465		$6.061 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.493	0.009	0.010	0.009	2.522		$8.466 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.544	0.015	0.018	0.014	2.591		$1.237 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.579	0.021	0.027	0.018	2.645		$1.619 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.659	0.049	0.066	0.035	2.809		$3.084 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.684	0.064	0.087	0.043	2.878		$3.788 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.722	0.094	0.130	0.059	3.005		$5.147 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.761	0.141	0.200	0.084	3.186		$7.085 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.805	0.223	0.318	0.126	3.473		$1.009 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.836	0.308	0.441	0.168	3.754		$1.286 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.913	0.663	0.955	0.340	4.871		$2.219 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.937	0.847	1.221	0.427	5.433		$2.607 \times 10^5$	
1.17 TeV	$1.172 \times 10^6$	2.955	1.005	1.447	0.504	5.910			<i>Muon critical energy</i>
1.40 TeV	$1.400 \times 10^6$	2.975	1.217	1.750	0.606	6.549		$3.277 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	3.016	1.786	2.562	0.877	8.242		$4.092 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	3.062	2.740	3.915	1.345	11.062		$5.136 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.096	3.712	5.287	1.820	13.914		$5.940 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.179	7.648	10.814	3.800	25.441		$8.035 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.206	9.639	13.599	4.820	31.265		$8.743 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.247	13.614	19.148	6.923	42.932		$9.831 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.292	19.628	27.518	10.154	60.592		$1.100 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.343	29.643	41.443	15.764	90.194		$1.235 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.381	39.714	55.415	21.524	120.034		$1.330 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.472	80.078	111.352	45.707	240.609		$1.561 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.503	100.308	139.354	58.247	301.412		$1.635 \times 10^6$	