

# Marktek Inc.

Your One-Stop Shop for Conductive, Resistive, & Microwave-Absorptive Materials

## Data Sheet for the C100010xxT Series of Carbon Nonwovens

**Description:** Wet-laid nonwovens consisting of 7-um diameter carbon fiber staple (1/4" & 1/2") with 1-20 wt.% , usually 10%, of polyvinyl alcohol (PVA) binder. (Other binders available.) Widths up to 64" can be specified.

Part Number	Basis Wt.		Thickness*		Break Strength, MD		Surface Resistivity
	oz/yd <sup>2</sup>	g/m <sup>2</sup>	mils	mm	lb/in	N/15 mm	avg. MD&XD, ohm/sq
C1001008T	0.24	8	5	0.12	5	14	12-20
C10001010T	0.3	10	6	0.14	7	18	10-18
C10001017T	0.5	17	8	0.21	12	31	6-10
C10001020T	0.6	20	9	0.25	14	36	5-8
C10001034T	1.0	34	16	0.41	23	61	3-5
C10001050T	1.5	50	24	0.60	34	90	2-4
C10001068T	2.0	68	31	0.78	46	122	2-3
C10001100T	2.9	100	51	1.30	69	180	2-2

\*measured at 1.45 lb/in<sup>2</sup> = 10kPa

N.B. All values above are merely representative and indicative, as actual values may vary.

Avg. shielding effectiveness at 1 GHz ranges from about 30 dB to ~45 dB when going from 10 g/m<sup>2</sup> to 50 g/m<sup>2</sup>.

**Applications:** EMI/RFI shielding (e.g., compression-molded cases, architectural linings); static dissipation; reflective backplanes; reflective layers in satellite dishes; fuel cells; resistive heating; surface veils for electrical grounding, corrosion resistance, and improving surface finish of linings; and radar-absorbing materials (RAM, stealth).

All statements and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied, and should not be considered as specifications but merely indicative. Statements or suggestions concerning possible use of this product line are made without representation or warranty that use is free of patent infringement. It is up to the user of these products to determine if the products are fully qualified for the intended application and that all normal safety measures are practiced when handling these products.

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