

Marktek Inc.

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

Data Sheet for the C10001xxxT Series of Carbon Nonwovens

Description: Wet-laid nonwovens consisting of 6.8 um-diameter carbon fiber staple (1/8 - 1") with 1-20 wt.% of PVA binder. (Other binders are available.)

Property	Part Number		
	C10001034T	C10001017T	C10001010T
Thickness, mils:	~17 (0.43 mm)	~8 (0.21 mm)	~5 (0.13 mm)
Basis Weight, oz/yd ² :	1 (34 g/m ²)	0.5 (17 g/m ²)	0.3 (10 g/m ²)
Width, inches:	up to 64 (1.62 m)	up to 64 (1.62 m)	up to 64 (1.62 m)
Surface Resistivity, ohm/sq:			
MD	3.8	6.0	7
XMD	6.2	10	13
Breaking/Tensile Strength			
MD, lb/in:	> 9 (16 N/cm)	>4.5 (7.9 N/cm)	> 2.7 (4.7 N/cm)
XMD, lb/in:			
Air Permeability, ft ³ /min/ft ² :	NA	NA	NA

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

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